



## United States Embassy

Lima, Peru  
June 15, 2016

To: Prospective Quoters

Subject: Request for Quotations number SPE50016Q0025

Enclosed is a Request for Quotations (RFQ) to perform the Replacement 100 Foot Steel Flagpole Installation. If you would like to submit a quotation, follow the instructions in Section J of the solicitation, complete the required portions of the attached document, and submit it to the address shown on the Standard Form 1442 that follows this letter.

The Embassy will conduct a pre-proposal conference on Tuesday June 21, 2016 at 13:00 hrs. All prospective quoters who have a solicitation package are invited to attend. Please submit the names and DNIs or passport numbers of people attending the visit to Chaddy Gamero at [gameroc@state.gov](mailto:gameroc@state.gov) no later than Friday June 17, 2016 by COB in order to coordinate the access to the building.

Your quotation must be submitted in a sealed envelope marked "Quotation Enclosed" to Noemi Davila, Contracting Officer, and Av. Lima Polo cdra 2, Monterrico, Surco on or before 10:00 hrs. on Monday June 27, 2016. No quotations will be accepted after this date and time.

For a quotation to be considered, you must also complete and submit the following:

1. SF-1442 filled and signed (numbers 14, 15, 16, 17, 30A, 30B and 30C)
2. Prices Summary in Section A of Solicitation
3. Price Schedule Breakdown in Attachment #4
4. Confirmed Performance Chart in Attachment #5
5. Additional information as required in Section J

The U.S. Government intends to award a contract order to the responsible quoter submitting an acceptable quotation at the lowest price. We intend to award a contract based on initial quotations, without holding discussions, although we may hold discussions with companies in the competitive range if there is a need to do so.

Direct any questions regarding this solicitation in writing to Chaddy Gamero, Procurement Agent at [gameroc@state.gov](mailto:gameroc@state.gov)

Sincerely,

  
Noemi Davila  
Contracting Officer

Enclosure

<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. SPE50016Q0025	2. TYPE OF SOLICITATION _ SEALED BID (IFB) x NEGOTIATED (RFP)	3. DATE ISSUED 06/15/2016	Page 1 of 3
	<b>IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.</b>			

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO. PR 5349227	6. PROJECT NO.
7. ISSUED BY AMERICAN EMBASSY LIMA Ave. Lima Polo Cdra 2 Monterrico, ATTN: GSO/Procurement Lima PERU	CODE PE500	8. ADDRESS OFFER TO AMERICAN EMBASSY LIMA Ave. Lima Polo Cdra 2 Monterrico, ATTN: GSO/Procurement Lima PERU
9. FOR INFORMATION CALL: →	A. NAME Chaddy Gamero	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 511-6182639

**SOLICITATION**

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder."

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date):

Request to perform the removal of an existing 50-foot flagpole and the installation of the new 100-foot replacement flagpole to be carried out at the Podium in front of the Chancery Building, located at La Encalada Avé. Block 17 S/N, according to the Attachment #1 Scope of work with drawings and all other related documents.

11. The Contractor shall begin performance within calendar days and complete it within 10 calendar days after receiving  
x award, \_ notice to proceed. This performance period is x mandatory, \_ negotiable. (See .)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? (If "YES," indicate within how many calendar days after award in Item 12B.) x YES      _ NO	12B. CALENDAR DAYS 30
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

- A. Sealed offers in original and 3 copies to perform the work required are due at the place specified in Item 8 by 10:00 (hour) local time 09/10/2015 (date). If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.
- B. An offer guarantee x is, \_ is not required.
- C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.
- D. Offers providing less than 30 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

**OFFER (Must be fully completed by offeror)**

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)

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CODE                      FACILITY CODE

15. TELEPHONE NO. (Include area code)

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16. REMITTANCE ADDRESS (Include only if different than Item 14)

17. The offeror agrees to perform the work at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government within \_\_\_\_\_ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)

AMOUNTS →

18. The offeror agrees to furnish any required performance and payment bonds.

**19. ACKNOWLEDGMENT OF AMENDMENTS**

*The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each*

AMENDMENT NO.										
DATE										
20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>					20B. SIGNATURE					20C. OFFER DATE

**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
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24. SUBMIT INVOICES TO ADDRESS SHOWN IN <i>(4 copies unless otherwise specified)</i> →	ITEM	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO _ 10 U.S.C. 2304(c) ( )      _ 41 U.S.C. 253(c) ( )
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26. ADMINISTERED BY                      CODE	27. PAYMENT WILL BE MADE BY
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**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

28. NEGOTIATED AGREEMENT <i>(Contractor is required to sign this document and return _____ copies to issuing office.)</i> Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.	29. AWARD <i>(Contractor is not required to sign this document.)</i> Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN <i>(Type or print)</i>	31A. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>		
30B. SIGNATURE	30C. DATE	31B. UNITED STATES OF AMERICA, BY	31C. AWARD DATE

11. SCHEDULE

*(Include applicable Federal, State and local taxes)*

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
1	Request to perform the removal of an existing 50-foot flagpole and the installation of the new 100-foot replacement flagpole to be carried out at the Podium in front of the Chancery Building, located at La Encalada Ave. Block 17 S/N  Funding Information: Total: \$0.00 ----- \$0.00	1.00	EA	\$0.00	\$0.00

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REQUEST FOR QUOTATIONS – CONSTRUCTION

SECTION A - PRICE

A.1 The Contractor shall complete all work, including furnishing all labor, material, equipment and services required under this contract for the following firm fixed price and within the time specified. This price shall include all labor, materials, all insurances, overhead and profit. Amount should be expressed in US Dollars.

A.2 VALUE ADDED TAX – The contractor shall include VAT as a separate charge on the invoice and as a separate line item.

Total Cost of Service \$ \_\_\_\_\_

18% IGV Tax \$ \_\_\_\_\_

Total Contract cost \$ \_\_\_\_\_

## SECTION B. SCOPE OF WORK

The character and scope of the work are set forth in the contract. The Contractor shall furnish and install all materials required by this contract.

In case of differences between small and large-scale drawings, the latter will govern. Where a portion of the work is drawn in detail and the remainder of the work is indicated in outline, the parts drawn in detail shall apply also to all other portions of the work.

### **Refer to Attachment #1: Statement of Work**

## SECTION C. PACKAGING AND MARKING (RESERVED)

## SECTION D. INSPECTION AND ACCEPTANCE

The COR, or his/her authorized representatives, will inspect from time to time the services being performed and the supplies furnished to determine whether work is being performed in a satisfactory manner, and that all supplies are of acceptable quality and standards.

The Contractor shall be responsible for any countermeasures or corrective action, within the scope of this contract, which may be required by the Contracting Officer as a result of such inspection.

### D.1 SUBSTANTIAL COMPLETION

(a) "*Substantial Completion*" means the stage in the progress of the work as determined and certified by the Contracting Officer in writing to the Contractor, on which the work (or a portion designated by the Government) is sufficiently complete and satisfactory. Substantial completion means that the property may be occupied or used for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or installations remain to be completed or corrected which:

- (1) do not interfere with the intended occupancy or utilization of the work, and
- (2) can be completed or corrected within the time period required for final completion.

(b) The "date of substantial completion" means the date determined by the Contracting Officer or authorized Government representative as of which substantial completion of the work has been achieved.

Use and Possession upon Substantial Completion - The Government shall have the right to take possession of and use the work upon substantial completion. Upon notice by the Contractor that the work is substantially complete (a Request for Substantial Completion) and an inspection by the Contracting Officer or an authorized Government representative (including any required tests), the Contracting Officer shall furnish the Contractor a Certificate of Substantial Completion. The certificate will be accompanied by a Schedule of Defects listing items of work remaining to be performed, completed or corrected before final completion and acceptance. Failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

## D.2 FINAL COMPLETION AND ACCEPTANCE

D.2.1 "Final completion and acceptance" means the stage in the progress of the work as determined by the Contracting Officer and confirmed in writing to the Contractor, at which all work required under the contract has been completed in a satisfactory manner, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

D.2.2 The "*date of final completion and acceptance*" means the date determined by the Contracting Officer when final completion of the work has been achieved, as indicated by written notice to the Contractor.

D.2.3 FINAL INSPECTION AND TESTS. The Contractor shall give the Contracting Officer at least five (5) days advance written notice of the date when the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the notice unless the Contracting Officer determines that the work is not ready for final inspection and so informs the Contractor.

D.2.4 FINAL ACCEPTANCE. If the Contracting Officer is satisfied that the work under the contract is complete (with the exception of continuing obligations), the Contracting Officer shall issue to the Contractor a notice of final acceptance and make final payment upon:

- Satisfactory completion of all required tests,
- A final inspection that all items by the Contracting Officer listed in the Schedule of Defects have been completed or corrected and that the work is finally complete (subject to the discovery of defects after final completion), and
- Submittal by the Contractor of all documents and other items required upon completion of the work, including a final request for payment (Request for Final Acceptance).

## SECTION E. DELIVERIES OR PERFORMANCE

### 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to:

- (a) commence work under this contract within **10 (ten) calendar days** after the date the Contractor receives the notice to proceed,
- (b) prosecute the work diligently, and,
- (c) Complete the entire work ready for use not later than **35 calendar days** after NTP.

The time stated for completion shall include final cleanup of the premises. The time states for completion shall also include completion of punch list items.

### 52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay liquidated damages to the Government in the amount of **US\$ 50+ igv** for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Default clause.

### CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

(a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as **10 calendar days** after receipt of an executed contract".

(b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.

(c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by the Contracting Officer to achieve coordination with work by the Government and any separate contractors used by the Government. The Contractor shall submit a schedule, which sequences work so as to minimize disruption at the job site.

(d) **All deliverables shall be in the English language** and any system of dimensions (English or metric) shown shall be consistent with that used in the contract. No extension of time shall be allowed due to delay by the Government in approving such deliverables if the Contractor has failed to act promptly and responsively in submitting its deliverables. The

Contractor shall identify each deliverable as required by the contract.

(e) Acceptance of Schedule: When the Government has accepted any time schedule; it shall be binding upon the Contractor. The completion date is fixed and may be extended only by a written contract modification signed by the Contracting Officer. Acceptance or approval of any schedule or revision thereof by the Government shall not:

- (1) Extend the completion date or obligate the Government to do so,
- (2) Constitute acceptance or approval of any delay, or
- (3) Excuse the Contractor from or relieve the Contractor of its obligation to maintain the progress of the work and achieve final completion by the established completion date.

#### NOTICE OF DELAY

If the Contractor receives a notice of any change in the work, or if any other conditions arise which are likely to cause or are actually causing delays which the Contractor believes may result in late completion of the project, the Contractor shall notify the Contracting Officer. The Contractor's notice shall state the effect, if any, of such change or other conditions upon the approved schedule, and shall state in what respects, if any, the relevant schedule or the completion date should be revised. The Contractor shall give such notice promptly, not more than ten (10) days after the first event giving rise to the delay or prospective delay. Only the Contracting Officer may make revisions to the approved time schedule.

#### NOTICE TO PROCEED

(a) After receiving and accepting any bonds or evidence of insurance, the Contracting Officer will provide the Contractor a Notice to Proceed. The Contractor must then prosecute the work, commencing and completing performance not later than the time period established in the contract.

(b) It is possible that the Contracting Officer may elect to issue the Notice to Proceed before receipt and acceptance of any bonds or evidence of insurance. Issuance of a Notice to Proceed by the Government before receipt of the required bonds or insurance certificates or policies shall not be a waiver of the requirement to furnish these documents.

#### WORKING HOURS

All work shall be performed during **Monday through Saturday from 8:00 to 17:00 hrs.** Other hours, if requested by the Contractor, may be approved by the Contracting Officer's Representative (COR). The Contractor shall give 24 hours in advance to COR who will consider any deviation from the hours identified above. Changes in work hours, initiated by the Contractor, will not be a cause for a price increase.

#### PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held 10 days after contract award at the Embassy Compound – Av Encalada cdra 17 s/n Santiago de Surco, for discussing the schedule, submittals, notice to proceed, mobilization and other important issues that affect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:			
Description	Quantity	Deliver Date	Deliver To
Section G. Securities/Insurance	1	10 days after award	CO
Section E. Construction Schedule	1	10 days after award	COR
Section E. Preconstruction Conference	1	10 days after award	COR
Section G. Personnel Biographies	1	10 days after award	COR
Section F. Payment Request	1	At the end of the project	COR
Section D. Request for Substantial Completion	1	15 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

#### SECTION F. ADMINISTRATIVE DATA

##### 652.242-70 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (AUG 1999)

(a) The Contracting Officer may designate in writing one or more Government employees, by name or position title, to take action for the Contracting Officer under this contract. Each designee shall be identified as a Contracting Officer's Representative (COR). Such designation(s) shall specify the scope and limitations of the authority so delegated; provided, that the designee shall not change the terms or conditions of the contract, unless the COR is a warranted Contracting Officer and this authority is delegated in the designation.

(b) The COR for this contract is **Mr. Eduardo Ramirez – Facilities Engineer**

Payment: The Contractor's attention is directed to Section H, 52.232-5, "Payments Under Fixed-Price Construction Contracts". The following elaborates on the information contained in that clause.

Requests for payment may be made no more frequently than monthly. Payment requests shall cover the value of labor and materials completed and in place, including a prorated portion of overhead and profit.

After receipt of the Contractor's request for payment, and on the basis of an inspection of the work, the Contracting Officer shall make a determination as to the amount, which is then due. If the Contracting Officer does not approve payment of the full amount applied for, less the retainage allowed by in 52.232-5, the Contracting Officer shall advise the Contractor as to the reasons.

Under the authority of 52.232-27(a), the 14 day period identified in FAR 52.232-27(a)(1)(i)(A) is hereby changed to 30 days.

**Embassy of the United States of America - FMO / DBO**  
**RUC: 20293588776**  
**Avenida Lima Polo Cdra. 2 s/n –Santiago de Surco**  
**Lima 33 Peru**

The Contractor shall show Value Added Tax (VAT) as a separate item on invoices submitted for payment.

**SECTION G. SPECIAL REQUIREMENTS**

**G.1.0 PERFORMANCE/PAYMENT PROTECTION** - The Contractor shall furnish some form of payment protection as described in 52.228-13 in the amount of 50% of the contract price.

**G.1.1** The Contractor shall provide the information required by the paragraph above within ten (10) calendar days after award. Failure to timely submit the required security may result in rescinding or termination of the contract by the Government. If the contract is terminated, the Contractor will be liable for those costs as described in FAR 52.249-10, Default (Fixed-Price Construction), which is included in this purchase order.

**G.1.2** The bonds or alternate performance security shall guarantee the Contractor's execution and completion of the work within the contract time. This security shall also guarantee the correction of any defects after completion, the payment of all wages and other amounts payable by the Contractor under its subcontracts or for labor and materials, and the satisfaction or removal of any liens or encumbrances placed on the work.

**G.1.3** The required securities shall remain in effect in the full amount required until final acceptance of the project by the Government. Upon final acceptance, the penal sum of the performance security shall be reduced to 10% of the contract price. The security shall remain in effect for one year after the date of final completion and acceptance, and the Contractor shall pay any premium required for the entire period of coverage.

**G.2.0 INSURANCE** - The Contractor is required by FAR 52.228-5, "Insurance - Work on a Government Installation" to provide whatever insurance is legally necessary. The Contractor shall at its own expense provide and maintain during the entire performance period the following insurance amounts:

**G.2.1 GENERAL LIABILITY** (includes premises/operations, collapse hazard, products, completed operations, contractual, independent contractors, broad form property damage, personal injury) :

**(1) BODILY INJURY, ON OR OFF THE SITE, IN PERUVIAN SOLES**

Per Occurrence                      **S/. 35,000**

**(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS**

Per Occurrence

**The Contracting Officer will evaluate the property damage and determine the cost.**

G.2.2 The foregoing types and amounts of insurance are the minimums required. The Contractor shall obtain any other types of insurance required by local law or that are ordinarily or customarily obtained in the location of the work. The limit of such insurance shall be as provided by law or sufficient to meet normal and customary claims.

G.2.3 The Contractor agrees that the Government shall not be responsible for personal injuries or for damages to any property of the Contractor, its officers, agents, servants, and employees, or any other person, arising from and incident to the Contractor's performance of this contract. The Contractor shall hold harmless and indemnify the Government from any and all claims arising therefrom, except in the instance of gross negligence on the part of the Government.

G.2.4 The Contractor shall obtain adequate insurance for damage to, or theft of, materials and equipment in insurance coverage for loose transit to the site or in storage on or off the site.

G.2.5 The general liability policy required of the Contractor shall name "the United States of America, acting by and through the Department of State", as an additional insured with respect to operations performed under this contract.

### G.3.0 DOCUMENT DESCRIPTIONS

G.3.1 SUPPLEMENTAL DOCUMENTS: The Contracting Officer shall furnish from time to time such detailed drawings and other information as is considered necessary, in the opinion of the Contracting Officer, to interpret, clarify, supplement, or correct inconsistencies, errors or omissions in the Contract documents, or to describe minor changes in the work not involving an increase in the contract price or extension of the contract time. The Contractor shall comply with the requirements of the supplemental documents, and unless prompt objection is made by the Contractor within 20 days, their issuance shall not provide for any claim for an increase in the Contract price or an extension of contract time.

G.3.1.1. RECORD DOCUMENTS. The Contractor shall maintain at the project site:

- (1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
- (2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.

G.3.1.2. "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:

- (1) a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
- (2) record shop drawings and other submittals, in the number and form as required by the specifications.

G.4.0 LAWS AND REGULATIONS - The Contractor shall, without additional expense to the Government, be responsible for complying with all laws, codes, ordinances, and regulations applicable to the performance of the work, including those of the host country, and with the lawful orders of any governmental authority having jurisdiction. Host country authorities may not enter the construction site without the permission of the Contracting Officer. Unless otherwise directed by the Contracting Officer, the Contractor shall comply with the more stringent of the requirements of such laws, regulations and orders and of the contract. In the event of a conflict between the contract and such laws, regulations and orders, the Contractor shall promptly advise the Contracting Officer of the conflict and of the Contractor's proposed course of action for resolution by the Contracting Officer.

G.4.1 The Contractor shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety, and similar matters, to the extent that such compliance is not inconsistent with the requirements of this contract.

G.4.2 The Contractor shall give written assurance to the Contracting Officer that all subcontractors and others performing work on or for the project have obtained all requisite licenses and permits.

G.4.3 The Contractor shall submit proper documentation and evidence satisfactory to the Contracting Officer of compliance with this clause.

G.5.0 CONSTRUCTION PERSONNEL - The Contractor shall maintain discipline at the site and at all times take all reasonable precautions to prevent any unlawful, riotous, or disorderly conduct by or among those employed at the site. The Contractor shall ensure the preservation of peace and protection of persons and property in the neighborhood of the project against such action. The Contracting Officer may require, in writing that the Contractor remove from the work any employee that the Contracting Officer deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the project is deemed by the Contracting Officer to be contrary to the Government's interests.

G.5.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take approximately **20 calendar days** to perform. For each individual the list shall include:

1. **Full Name**
2. **Place and Date of Birth**
3. **Current Address**
4. **DNI number**
5. **Full name of Father and Mother**

Failure to provide any of the above information may be considered grounds for rejection and/or resubmittal of the application. Once the Government has completed the security screening and approved the applicants a badge will be provided to the individual for access to the site. This badge may be revoked at any time due to the falsification of data, or misconduct on site.

G.5.3 The Contractor shall provide an English speaking supervisor on site at all times. This position is considered as key personnel under this purchase order.

G.6.0 **Materials and Equipment** - All materials and equipment incorporated into the work shall be new and for the purpose intended, unless otherwise specified. All workmanship shall be of good quality and performed in a skillful manner that will withstand inspection by the Contracting Officer.

#### G.7.0 SPECIAL WARRANTIES

G.7.1 Any special warranties that may be required under the contract shall be subject to the stipulations set forth in 52.246-21, "Warranty of Construction", as long as they are not in conflict.

G.7.2 The Contractor shall obtain and furnish to the Government all information required to make any subcontractor's, manufacturer's, or supplier's guarantee or warranty legally binding and effective. The Contractor shall submit both the information and the guarantee or warranty to the Government in sufficient time to permit the Government to meet any time limit specified in the guarantee or warranty, but not later than completion and acceptance of all work under this contract.

#### G.8.0 EQUITABLE ADJUSTMENTS

Any circumstance for which the contract provides an equitable adjustment that causes a change within the meaning of paragraph (a) of the "Changes" clause shall be treated as a change under that clause; provided, that the Contractor gives the Contracting Officer prompt written notice (within 20 days) stating:

- (a) the date, circumstances, and applicable contract clause authorizing an equitable adjustment and
- (b) that the Contractor regards the event as a changed condition for which an equitable adjustment is allowed under the contract

The Contractor shall provide written notice of a differing site condition within 10 calendar days of occurrence following FAR 52.236-2, Differing Site Conditions.

**G.9.0 ZONING APPROVALS AND PERMITS**

The Government shall be responsible for:

- obtaining proper zoning or other land use control approval for the project
- obtaining the approval of the Contracting Drawings and Specifications
- paying fees due for the foregoing; and,
- for obtaining and paying for the initial building permits.

**SECTION H. CLAUSES**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.acquisition.gov/far/> or <http://farsite.hill.af.mil/vffara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at <http://www.statebuy.state.gov/> to access links to the FAR. You may also use an internet “search engine” (for example, Google, Yahoo, Excite) to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation clause(s) is/are incorporated by reference (48 CFR CH. 1):

<u>CLAUSE</u>	<u>TITLE AND DATE</u>
52.202-1	DEFINITIONS (NOV 2013)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (JULY 2013)
52.204-12	DATA UNIVERSAL NUMBERING SYSTEM NUMBER MAINTENANCE (DEC 2012)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (JULY 2013)

- 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (AUG 2013)
- 52.209-9 UPDATES OF INFORMATION REGARDING RESPONSIBILITY MATTERS (JULY 2013)
- 52.213-4 TERMS AND CONDITIONS –SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (OCT 2014)
- 52.216-7 ALLOWABLE COST AND PAYMENT (JUN 2013)
- 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)
- 52.222-19 CHILD LABOR – COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2014)
- 52.222-50 COMBATING TRAFFICKING IN PERSONS (FEB 2009)
- 52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)
- 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)
- 52.225-14 INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)
- 52.228-4 WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)
- 52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)
- 52.228-11 PLEDGES OF ASSETS (JAN 2012)
- 52.228-13 ALTERNATIVE PAYMENT PROTECTION (JULY 2000)
- 52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)
- 52.229-6 TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)
- 52.229-7 TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)
- 52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)

- 52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)
- 52.232-11 EXTRAS (APR 1984)
- 52.232-18 AVAILABILITY OF FUNDS (APR 1984)
- 52.232-22 LIMITATION OF FUNDS (APR 1984)
- 52.232-25 PROMPT PAYMENT (JULY 2013)
- 52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)
- 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER – OTHER THAN SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.233-1 DISPUTES (MAY 2014) *Alternate I (DEC 1991)*
- 52.233-3 PROTEST AFTER AWARD (AUG 1996)
- 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)
- 52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)
- 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)
- 52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)
- 52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)
- 52.236-8 OTHER CONTRACTS (APR 1984)
- 52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)
- 52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)
- 52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)
- 52.236-12 CLEANING UP (APR 1984)
- 52.236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)

- 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
- 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)
- 52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)
- 52.242-14 SUSPENSION OF WORK (APR 1984)
- 52.243-4 CHANGES (JUN 2007)
- 52.243-5 CHANGES AND CHANGED CONDITIONS (APR 1984)
- 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (JULY 2014)
- 52.245-2 GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)
- 52.245-9 USE AND CHARGES (APR 2012)
- 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)
- 52.246-17 WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)
- 52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994)
- 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) *Alternate I (SEPT 1996)*
- 52.249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)
- 52.249-14 EXCUSABLE DELAYS (APR 1984)

The following Department of State Acquisition Regulation (DOSAR) clause(s) is/are set forth in full text:

**652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)**

(a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.

(b) The DOS Personal Identification Card Issuance Procedures may be accessed at <http://www.state.gov/m/ds/rls/rpt/c21664.htm> .

(End of clause)

#### CONTRACTOR IDENTIFICATION (JULY 2008)

Contract performance may require contractor personnel to attend meetings with government personnel and the public, work within government offices, and/or utilize government email.

Contractor personnel must take the following actions to identify themselves as non-federal employees:

- 1) Use an e-mail signature block that shows name, the office being supported and company affiliation (e.g. "John Smith, Office of Human Resources, ACME Corporation Support Contractor");
- 2) Clearly identify themselves and their contractor affiliation in meetings;
- 3) Identify their contractor affiliation in Departmental e-mail and phone listings whenever contractor personnel are included in those listings; and
- 4) Contractor personnel may not utilize Department of State logos or indicia on business cards.

(End of clause)

#### 652.236-70 ACCIDENT PREVENTION (APR 2004)

(a) *General.* The Contractor shall provide and maintain work environments and procedures which will safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to contractor operations and activities; avoid interruptions of Government operations and delays in project completion dates; and, control costs in the performance of this contract. For these purposes, the Contractor shall:

- (1) Provide appropriate safety barricades, signs and signal lights;
- (2) Comply with the standards issued by any local government authority having jurisdiction over occupational health and safety issues; and,
- (3) Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for this purpose are taken.
- (4) For overseas construction projects, the Contracting Officer shall specify in writing additional requirements regarding safety if the work involves:
  - (i) Scaffolding;
  - (ii) Work at heights above two (2) meters;
  - (iii) Trenching or other excavation greater than one (1) meter in depth;
  - (iv) Earth moving equipment;
  - (v) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;
  - (vi) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other

hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);

(vii) Hazardous materials – a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.; or

(viii) Hazardous noise levels.

(b) *Records.* The Contractor shall maintain an accurate record of exposure data on all accidents incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The Contractor shall report this data in the manner prescribed by the Contracting Officer.

(c) *Subcontracts.* The Contractor shall be responsible for its subcontractors' compliance with this clause.

(d) *Written program.* Before commencing work, the Contractor shall:

(1) Submit a written plan to the Contracting Officer for implementing this clause. The plan shall include specific management or technical procedures for effectively controlling hazards associated with the project; and,

(2) Meet with the Contracting Officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

(e) *Notification.* The Contracting Officer shall notify the Contractor of any non-compliance with these requirements and the corrective actions required. This notice, when delivered to the Contractor or the Contractor's representative on site, shall be deemed sufficient notice of the non-compliance and corrective action required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Contracting Officer may issue an order suspending all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any suspension of work order issued under this clause.

(End of clause)

#### 652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

(a) The Contractor warrants the following:

(1) That it has obtained authorization to operate and do business in the country or countries in which this contract will be performed;

(2) That it has obtained all necessary licenses and permits required to perform this contract; and,

(3) That it shall comply fully with all laws, decrees, labor standards, and regulations of said country or countries during the performance of this contract.

(b) If the party actually performing the work will be a subcontractor or joint venture partner, then such subcontractor or joint venture partner agrees to the requirements of paragraph (a) of this clause.

(End of clause)

652.243-70 NOTICES (AUG 1999)

Any notice or request relating to this contract given by either party to the other shall be in writing. Said notice or request shall be mailed or delivered by hand to the other party at the address provided in the schedule of the contract. All modifications to the contract must be made in writing by the Contracting Officer.

(End of clause)

I. LIST OF ATTACHMENTS

ATTACHMENT NUMBER	DESCRIPTION OF ATTACHMENT	NUMBER OF PAGES
Attachment #1:	Statement of Work	3
Attachment #2:	Contractor Safety Policy	4
Attachment #3:	Daily Construction Report	2
Attachment#4	Price Schedule Breakdown	1
Attachment #5:	Proposed Performance Chart	1
Attachment #6:	Project Process Payment	2
Attachment #7:	Project Submittal Form	2
Attachment #8:	Drum 4.5. Inch USF Form	1
Attachment #9:	Flagpole with 16' Butt Diameter 100 Foot	1
Attachment #10:	Complete Electric winch system	1
Attachment #11:	Existing Flagpole	5
Attachment #12:	Flagpole location	1
Attachment #13:	General Foundation Drawing	1
Attachment #14:	New Flagpole Typical Splice	1
Attachment #15:	Paint specifications and data specifications	17

J. QUOTATION INFORMATION

A. QUALIFICATIONS OF OFFERORS

Offerors/quoters must be technically qualified and financially responsible to perform the work described in this solicitation. **At a minimum, each Offeror/Quoter must meet the following requirements:**

- (1) **Be able to understand written and spoken English;**
- (2) Have an established business with a permanent address and telephone listing;
- (3) Be able to demonstrate prior construction experience with suitable references;
- (4) Have the necessary personnel, equipment and financial resources available to perform the work;
- (5) Have all licenses and permits required by local law;
- (6) Meet all local insurance requirements;
- (7) Have the ability to obtain or to post adequate performance security, such as bonds, irrevocable letters of credit or guarantees issued by a reputable financial institution;
- (8) Have no adverse criminal record; and
- (9) Have no political or business affiliation which could be considered contrary to the interests of the United States.

B. SUBMISSION OF QUOTATIONS

This solicitation is for the performance of the construction services described in SCOPE OF WORK, and the Attachments which are a part of this request for quotation.

Each quotation must consist of the following:		
VOLUME	TITLE	NUMBER OF COPIES*
I	Standard Form 1442 completed and signed. Attachment #4 Price Schedule Breakdown Company Profile and References	02
II	Attachment #5 Proposed Performance Chart Civil works references List of Owned Equipment	02

Submit the complete quotation to the address indicated on Standard Form 1442.

Proposals should be submitted no later than **Monday June 27, 2016 at 10:00 hrs.**

The Offeror/Quoter shall identify and explain/justify any deviations, exceptions, or conditional assumptions taken with respect to any of the instructions or requirements of this request for quotation in the appropriate volume of the offer.

**Volume II: Performance schedule and Business Management/Technical Proposal.**

(a) Present the performance schedule in the form of a "bar chart" indicating when the various portions of the work will be commenced and completed within the required schedule. This bar chart shall be in sufficient detail to clearly show each segregable portion of work and its planned commencement and completion date.

(b) The Business Management/Technical Proposal shall be in two parts, including the following information:

**Proposed Work Information - Provide the following:**

- (1) A list of the names, addresses and telephone numbers of the owners, partners, and principal offices of the Offeror;
- (2) The name and address of the Offeror's field superintendent for this project;
- (3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

**Experience and Past Performance** - List all contracts and subcontracts your company has held over the past three years for the same or similar work. Provide the following information for each contract and subcontract:

- (1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;
- (2) Contract number and type;
- (3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;
- (4) Brief description of the work, including responsibilities; and
- (5) Any litigation currently in process or occurring within last 5 years.

C. 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) A site visit has been scheduled for **Tuesday June 21, 2016 at 13:00 hrs.**

(c) Participants will meet at **Av. Encalada Cdra 17 s/n Surco , the person of contact is Mr. Chaddy Gamero.**

(d) Kindly submit the complete names and DNI numbers of personnel attending the visit (maximum 2 persons per vendor) **no later than Friday June 17, 2016 at 13:00 hrs.** to Mr. Chaddy Gamero at [gameroc@state.gov](mailto:gameroc@state.gov)

D. MAGNITUDE OF CONSTRUCTION PROJECT

**It is anticipated that the range in price of this contract will be less than USD 25,000.**

E. LATE QUOTATIONS. Late quotations shall be handled in accordance with FAR.

F. 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates the following provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer.

Also, the full text of a solicitation provision may be accessed electronically at: <http://acquisition.gov/far/index.html>/ or <http://farsite.hill.af.mil/vffara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at <http://www.statebuy.state.gov> to access the link to the FAR, or use of an Internet "search engine" (for example, Google, Yahoo or Excite) is suggested to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation provisions are incorporated by reference (48 CFR CH. 1):

<u>PROVISION</u>	<u>TITLE AND DATE</u>
52.204-6	DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (JULY 2013)
52.204-7	SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (NOV 2014)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

K. EVALUATION CRITERIA

Award will be made to the lowest priced, acceptable, responsible quoter. The Government reserves the right to reject quotations that are unreasonably low or high in price.

The Government will determine acceptability by assessing the offeror's compliance with the terms of the RFQ. The Government will determine responsibility by analyzing whether the apparent successful quoter complies with the requirements of FAR 9.1, including:

- ability to comply with the required performance period, taking into consideration all existing commercial and governmental business commitments;
- satisfactory record of integrity and business ethics;
- necessary organization, experience, and skills or the ability to obtain them;
- necessary equipment and facilities or the ability to obtain them; and
- otherwise, qualified and eligible to receive an award under applicable laws and regulations.

The following DOSAR is provided in full text:

652.209-79 REPRESENTATION BY CORPORATION REGARDING AN UNPAID DELINQUENT TAX LIABILITY OR A FELONY CRIMINAL CONVICTION UNDER ANY FEDERAL LAW (SEPT 2014) (DEVIATION per PIB 2014-21)

(a) In accordance with section 7073 of Division K of the Consolidated Appropriations Act, 2014 (Public Law 113-76) none of the funds made available by that Act may be used to enter into a contract with any corporation that –

(1) Was convicted of a felony criminal violation under any Federal law within the

preceding 24 months, where the awarding agency has direct knowledge of the conviction, unless the agency has considered, in accordance with its procedures, that this further action is not necessary to protect the interests of the Government; or

(2) Has any unpaid Federal tax liability that has been assessed for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, where the awarding agency has direct knowledge of the unpaid tax liability, unless the Federal agency has considered, in accordance with its procedures, that this further action is not necessary to protect the interests of the Government.

For the purposes of section 7073, it is the Department of State's policy that no award may be made to any corporation covered by (1) or (2) above, unless the Procurement Executive has made a written determination that suspension or debarment is not necessary to protect the interests of the Government.

(b) Offeror represents that—

(1) It is [ ] is not [ ] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(2) It is [ ] is not [ ] a corporation that has any unpaid Federal tax liability that has been assessed for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

(End of provision)

SECTION L - REPRESENTATIONS, CERTIFICATIONS AND  
OTHER STATEMENTS OF OFFERORS OR QUOTERS

L.1 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

"Common parent", as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)", as used in this provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments

(c) otherwise due under the contract.

(d) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 USC 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(e) Taxpayer Identification Number (TIN).

TIN: \_\_\_\_\_

- TIN has been applied for.
- TIN is not required because:
  - Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;
  - Offeror is an agency or instrumentality of a foreign government;
  - Offeror is an agency or instrumentality of the Federal Government.

(e) Type of Organization.

- Sole Proprietorship;
- Partnership;
- Corporate Entity (not tax exempt);
- Corporate Entity (tax exempt);
- Government Entity (Federal, State or local);
- Foreign Government;

- International organization per 26 CFR 1.6049-4;
- Other \_\_\_\_\_.

(f) Common Parent.

- Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
- Name and TIN of common parent:  
 Name \_\_\_\_\_  
 TIN \_\_\_\_\_

(End of provision)

**L.2 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (NOV 2014)**

(a)(1) The North American Industry Classification System (NAICS) code(s) for this acquisition is/are:

- 236118 - Construction Management, residential remodeling**
- 236220 - Construction Management, commercial and institutional building or Warehouse construction**
- 237110 - Construction Management, water and sewage line and related structures**
- 237310 - Construction Management, highway road, street or bridge**
- 237990 - Construction Management, outdoor recreation facility**

(2) The small business size standard is **\$36.5 Million USD**.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

[ ] (i) Paragraph (d) applies.

[ ] (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

- (ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.
- (iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.
- (iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
- (A) Are not set aside for small business concerns;
  - (B) Exceed the simplified acquisition threshold; and
  - (C) Are for contracts that will be performed in the United States or its outlying areas.
- (v) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.
- (vi) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (vii) 52.214-14, Place of Performance—Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
  - (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- (xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- (xiii) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- (xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA-designated items.
- (xvi) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.
- (xvii) 52.225-4, Buy American—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.
- (A) If the acquisition value is less than \$25,000, the basic provision applies.
  - (B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its

Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.

(D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan— Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

(i) 52.204-17, Ownership or Control of Offeror.

(ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

(iii) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment- Certification.

(iv) 52.222-52, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-Certification.

(v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

(vi) 52.227-6, Royalty Information.

(A) Basic.

(B) Alternate I.

(vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM website accessed through <https://www.acquisition.gov>. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [*offeror to insert changes, identifying change by clause number, title, date*]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause #	Title	Date	Change
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

L.3. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

(a) *Definitions.* As used in this clause—

“Manufactured end product” means any end product in Federal Supply Classes (FSC) 1000-9999, except—

- (1) FSC 5510, Lumber and Related Basic Wood Materials;
- (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) FSC 9610, Ores;
- (9) FSC 9620, Minerals, Natural and Synthetic; and
- (10) FSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

- (1)  In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
- (2)  Outside the United States.

(End of provision)

L.4 AUTHORIZED CONTRACTOR ADMINISTRATOR

If the offeror does not fill-in the blanks below, the official who signed the offer will be deemed to be the offeror's representative for Contract Administration, which includes all matters pertaining to payments.

Name:

Telephone Number:

Address:

**Note: If the bidder/offeror has indicated “yes” in blocks (a)(1), (2), or (3) of the following provision, the bidder/offeror shall include Defense Base Act insurance costs covering those employees in their proposed prices. The bidder/offeror may obtain DBA insurance directly from any Department of Labor approved providers at the DOL website at <http://www.dol.gov/owcp/dlhwc/lscarrier.htm>.**

**L.5 652.228-70 DEFENSE BASE ACT – COVERED CONTRACTOR EMPLOYEES  
(JUN 2006)**

(a) Bidders/offerors shall indicate below whether or not any of the following categories of employees will be employed on the resultant contract, and, if so, the number of such employees:

<u>Category</u>	<u>Yes/No</u>	<u>Number</u>	
(1) United States citizens or residents			
(2) Individuals hired in the United States, regardless of citizenship			
(3) Local nationals or third country nationals where contract performance takes place in a country where there are no local workers’ compensation laws		local nationals:	
		third-country nationals:	
(4) Local nationals or third country nationals where contract performance takes place in a country where there are local workers’ compensation laws		local nationals:	
		third-country nationals:	

(b) The Contracting Officer has determined that for performance in the country of Peru

- Workers’ compensation laws exist that will cover local nationals and third country nationals.
- Workers’ compensation laws do not exist that will cover local nationals and third country nationals.

(c) If the bidder/offeror has indicated “yes” in block (a)(4) of this provision, the bidder/offeror shall not purchase Defense Base Act insurance for those employees. However, the bidder/offeror shall assume liability toward the employees and their beneficiaries for war-hazard injury, death, capture, or detention, in accordance with the clause at FAR 52.228-4.

(d) RESERVED

(End of provision)

**STATEMENT OF WORK  
FOR  
INSTALLATION SERVICES**

**INSTALLATION OF NEW FLAGPOLE**

**1.0 INTRODUCTION**

- 1.1 The U.S. American Embassy is looking for an experienced company in mechanical engineering construction projects to perform the removal of the existing 50 foot flagpole and the installation of the new 100 foot replacement flagpole to be done at the Podium at the front of the Chancery Building, located at Encalada Ave. Block 17 S/N.
- 1.1.1 The new 100 foot steel flagpole and accessories will be provided by the USA Embassy.
- 1.1.2 The new 100 foot steel flagpole will be installed at the Podium of the Chancery Building, and the existing 50 foot flagpole shall be removed from the Podium of the Chancery Building and disposed by the Contractor.
- 1.1.3 The existing 50 foot flagpole has been built in aluminum.
- 1.1.4 Drawings and dimensions of the existing 50 foot flagpole are shown on attached document:
- Existing Flagpole.pdf
- 1.1.5 Existing and new location for both existing and new flagpoles, are shown on attached drawing:
- Flagpole Locations.pdf
- 1.1.6 The Contractor will be in charge to remove the existing flagpole, with the use of a crane, in coordination with the COR and then properly disposed at the Contractor own costs.
- 1.1.7 The Contractor will also be in charge of the assembling of the three (03) sections of the new 100 foot steel flagpole, build the new concrete foundation, install the foundation sleeve and Lightning Spike Arrestor and to lift the new flagpole with the help of a proper telescopic crane, place on its location and connect it to the foundation bolts and to new control and electric powers lines and others. All materials provided by the Contractor, except the new flagpole and listed materials provided by the US Embassy.
- 1.1.8 Concrete bock foundation shall be at least as indicated on General Foundation Drawing.pdf. However the soil report and the complete engineering for the foundation shall be done by a licensed and registered civil engineer
- 1.1.9 Concrete used on the foundation shall be  $f_c = 4000$  PSI and all steel for reinforced concrete rebar must be ASTM A-615 Gr. 60.
- 1.1.10 The crane will be used to remove on the same day, the existing flagpole and to lift the new flagpole. At all times the Embassy shall have at least one flagpole available.
- 1.1.11 The Embassy will be in charge to release the new 100 foot steel flagpole from Customs and bring it inside the Chancery Warehouse.
- 1.1.12 All regular construction phases of the work as assembling, welding, soldering, take-off measurements, and preparation work will be done during normal hours, Monday-Saturday, in a working area assigned by the Embassy

1.1.13 Information regarding the new 100 foot steel flagpole can be found in the following attachments:

- 100 Foot Flagpole With 16" Butt Diameter.docx
- New Flagpole Typical Splice.pdf.docx
- General Foundation Drawing.pdf
- Complete Electric Winch System.pdf
- 4.5 Inch Drum USF-B01-0584-1.pdf
- Paint Specs and Data Sheets.pdf

1.1.14 Prior to the installation of the new 100 foot steel flagpole, the Contractor shall send a set of shop CAD drawings with all required details for the installation. These drawings shall include details for the concrete foundation, assembling of different pieces, power and control connections for the electrical winch, in a professional manner and according with American standards. These drawings shall show all mechanical, electrical and control details for approval by the US Embassy prior to the installation and any change or modification if it is required.

1.1.15 The new 100 foot steel flagpole has the following components, the same that shall be assembled according with manufacturer instructions:

- 18" Heavy Duty Revolving Truck Ball Assembly
- 1.25" Stainless Steel Spindle
- 200' 1/8" 7 x 19 Braided Stainless Steel Aircraft Cable
- Beaded Retainer Rings
- 2" Stainless Steel Saphooks
- 3/8" Stainless Steel Quick Links
- Stainless Steel Swivels
- Locking Access Door
- Stainless Steel Internal Winch
- Corrugated Steel Ground Sleeve w/Lightning Spike Arrestor
- 120 Volt Electric Winch complete with Pendant
- 25' x 40' United States Two Ply-Polyester Flags

1.1.16 The Embassy will provide:

- Electrical power required for this work. Embassy is able provide power on the following options: 208, 460 Volts/3 phase/60 Hz in one single point where the Contractor will perform its work. Contractor shall connect to this electrical point according to his requirements with electrical extension cords, reliable, good quality and in good conditions. The use of extensions in bad conditions or improper connections will not be allowed. Contractor must provide all equipment and materials.
- One electrical point 115 V/1 ph/60 Hz for the electrical winch and a junction box, wired, located @ 3 mt. from the equipment.

1.1.17 Basic definition of works include and are indicated and detailed on the Price Schedule Breakdown attachment:

- CAD drawings for the new 100 foot steel flagpole installation.
- Removal and disposal of the existing 50 foot aluminum flagpole
- Installation of the new 100 foot steel flagpole, including all accessories described on item 1.1.11.
- One day telescopic crane rental to remove the existing flagpole and lift the new one.
- Concrete block foundation for the flagpole.
- Power and control lines to the new electrical winch.
- Paint works for the new flagpole.
- Finish floor works on the flagpole areas.
- As Builds CAD drawings
- Tests and operation logs

- 1.1.18 Existing concrete block bricks flooring shall be repaired and leave as the same conditions as the existing on both flagpole locations.
- 1.1.19 Contractors must provide their own equipment and scaffolds.
- 1.1.20 Contractor must provide a complete Testing and Start Up report for the electrical winch, internal halyard and other components. Shall measure of motor winch amps on both phases, etc.
- 1.1.21 Contractor must follow all working safety regulations and provide their personnel with appropriate safety equipment like gloves, security shoes, ocular protection, earring protection, falling protection and others. A site meeting will be held to discuss safety issues prior to work commencing.
- 1.1.22 The Embassy is providing in the **Attachment A Contractor Safety Policy**
- 1.1.23 Working days: Monday thru Saturday: 8 AM to 5 PM.
- 1.1.24 All works should be done in coordination with the COR.
- 1.1.25 Contractor must provide As Builds CAD drawings, at the end of the works.
- 1.1.26 Upon completion of each working day the area should be to be returned to clean condition with no dust, construction debris or stains in evidence and no excess paint dropping on floors, outlets or fixtures.
- 1.1.27 All retouching works should be included and the area should be kept clean during and at the end of each working days.
- 1.1.28 All damaged areas during the working process should be restored to its original conditions.
- 1.1.29 Contractor must remove and dispose all of construction debris daily.
- 1.1.30 The time frame for this work shall not exceed four weeks.
- 1.1.31 After the installation of the new 100 foot steel flagpole is completed and accepted, the Contractor must send a set of As Builds CAD drawing. These drawings shall include details for the concrete foundation, assembling of different pieces, power and control connections for the electrical winch, in a professional manner and according with American standards.
- 1.2 The facility, US Embassy Chancery is located at Encalada Ave. Block 17 S/N. All inspections shall be requested through the Contracting Officer Representative [COR].
- 1.3 Work shall be completed as expeditiously as possible. The structure shall be occupied during the execution of this contract. Contractor shall coordinate with Contracting Officer for work phasing and job sequencing with work commencing and completing in each apartment unit in a sequential manner. Contractor to submit a phasing plan with construction schedule for review and approval prior to commencement of work at the site.

Contractor may be allowed to overlap phases upon exhibition of sufficient capability to execute the project simultaneously at multiple apartment units with the approval of the Contracting Officer [CO].

### **END OF STATEMENT OF WORK**

ATTACHMENT 2  
US EMBASSY LIMA  
Facilities Management Section  
Contractor Safety Policy

This Document outlines the safety policy for contractors hired by the US Embassy Lima Facilities Management Section, which provides construction services and facility maintenance. The concern for safety, health, and welfare of all of our employees and hired Contractors has become our greatest asset. We must all continue to recognize that there is no other aspect of our work that takes greater priority.

It is the policy of the Facilities Section to:

- Provide safe working conditions,
- Perform all activities in ways that eliminate risk of injury or health impairment to any tradesperson,
- Maintain all areas in ways that eliminate risk to visitors and to the public, and
- Eliminate risk of damage to property on and adjacent to every jobsite.

These are basic responsibilities of every company and individual on every jobsite. All supervisors of all trades must routinely accept complete responsibility for prevention of accidents and for the safety of all work under their direction. All trades people of every category are required to conduct themselves in a safe, considerate, and workmanlike manner.

By contract and by law, every company and person employed on the site is obligated at a minimum to comply with this safety policy document, the Federal Occupational Safety and Health Act, Americans with Disabilities Act, and the laws of every entity having jurisdiction over the work and the site.

Any company or individual refusing to correct observed safety violations will be banned from the site at least until such violations are corrected, and will be held completely responsible for all resulting effects.

The collective results of all our direct attention to safety objective will contribute to success, pride, and security that goes with it. Conduct with respect to safety will affect the manner in which the performance of all employees will be measured.

Although we enjoy a safety record to be proud of, our goal is 100% accident-free work, while ensuring our history of enduring quality work and satisfied clients. The good intentions, cooperation and good judgment of all employees in the use of safe and responsible work practices is the path toward continued personal and company improvement, and must be pursued each day.

A. DISCIPLINARY ACTION AND PROCEDURE FOR SAFETY VIOLATIONS

A.1 Policy

Compliance with all safety rules and procedures is a condition of contract agreement when working for the US Embassy Lima. All contractors and their employees

must familiarize themselves with safety rules and procedures, and comply with them in every respect. Supervisory, administrative, and management personnel at all levels are responsible for taking immediate corrective action when a violation is observed. Contractors are responsible for their crews' compliances.

Any person causing or knowingly allowing an unsafe condition to remain shall be subject to a warning and possible dismissal. Contractors guilty of intentional, serious, and/or repeated violations will be subject to a contract termination.

## A.2 Disciplinary Action

If a violation is observed, or comes to the attention of any Embassy supervisor or management personnel, action must be taken immediately to correct the violation. Immediately thereafter, the POSHO is to be notified. The POSHO will then follow the procedures below for necessary disciplinary action:

### First Warning:

The first warning will require the person to immediately leave the jobsite. The individual may return the following workday, provided there is not a safety violation. A verbal and written warning, with a copy of the Safety Violation Warning Notice will be given to the contractor and distributed to the project and contractor files.

### Second Warning:

The second warning will again require the person to immediately leave the jobsite. That individual will no longer be allowed on a US Embassy jobsite. A written notice will be given to the contractor, be retained by the POSHO and be distributed to the project and contractor files. A meeting will be held with the contractor and the POSHO in order to determine why the individual is not willing to comply with the rules and regulations. Any further action taken at this time will be determined by management, and be based upon the severity of the violation.

### Third Warning:

A third violation by the same company will result in a written notice which will be given to the contractor, be retained by the POSHO, and be distributed to the project and contractor file. Three (3) warnings for safety violations may result in termination of contract.

The actions listed above must be taken when a violation is observed. The US Embassy Beijing cannot tolerate actions or negligence that may result in injury. If there are any questions concerning this policy and procedure, contact the POSHO.

## B. FIRST AID

The contractor is responsible for providing first aid and medical treatment for their own employees and any subcontractors employed by the contractor. The contractor is also responsible to ensure that the names, addresses and telephone numbers of the

contractor's doctors, hospital, and ambulance services are conspicuously posted as required by law.

The Facilities Section will provide a first aid kit for use by all parties, located at its jobsite field office. The subcontractor is required to provide its own first aid kit conspicuously located in the vicinity of each of its work areas, and readily accessible at all times. Each first aid kit is to be of an appropriate size for the respective crew.

#### C. CONTRACTOR EMPLOYEE ORIENTATION AND TRAINING

The contractor shall provide and enforce an adequate ongoing safety program for the benefit of its employees. At a minimum, the contractor is required to:

1. Present its safety and loss control orientation program to each new employee prior to that employee's start of work.
2. Inform their employees of all safety and health rules pertaining to their particular work assignment.
3. Inform their employees of the location(s) and uses of all safety equipment and devices; such as first aid kits, fire extinguishers, personal protective devices, personal transport devices, communication equipment, etc.
4. Conduct monthly safety meetings for its supervisory employees and weekly tailgate safety meetings for all employees, including appropriate documentation of all meetings.
5. Implement a regular system of inspection of all work areas with the intention to detect and correct hazardous and potentially hazardous conditions, violations of any safety rule, and unsafe working practices.

#### D. CONTRACTOR EMPLOYEE CONDUCT

All contractor's employees are to be made aware of the following minimum rules of conduct, and will be required to comply with all such rules. Failure to comply may result in that company or its employee being temporarily or permanently barred from the site, at the sole discretion of the US Embassy Lima.

1. Alcoholic beverages and illegal drugs are strictly prohibited.
2. Employees entering the jobsite in the possession of or under the influence of alcohol or illegal drugs or controlled substances shall be subject to immediate ejection from the jobsite.
3. No firearms or weapons of any kind are allowed on the jobsite.
4. Fighting, gambling, stealing, soliciting, and horseplay of any kind is strictly prohibited.
5. Abusive language or disrespectful behavior is prohibited.
6. All accidents are to be reported on the same day as the accident occurrence.
7. All non-emergency treatment of accidents is to be authorized by the injured employee's immediate supervisor.
8. All employees are to be made aware of any jobsite alarms and emergency code signals.

9. Hardhats and construction grade shoes or boots are to be worn at all times.
10. Seat belts are to be worn at all times when in company vehicles and equipment.
11. Jobsite roadways and walkways are not to be blocked without prior approval of the foreman.
12. Proper hygiene will be expected of each employee.
13. All other written and spoken safety rules are to be followed explicitly.

E. EMPLOYEE CLOTHING AND PERSONAL PROTECTIVE EQUIPMENT

The contractor is responsible to ensure that all contractor's employees comply with minimum requirements for clothing worn in work areas, and that all contractor's employees have available to them and use all personal protective equipment required by their individual work assignments. Failure to comply may result in suspension of the work being performed by those employees until the clothing or equipment need is corrected. At a minimum:

1. The contractor is to provide and require the use of all protective devices and personal protective equipment by its employees at all times as required by their respective work activities.
2. Approved eye and face protection must be worn when conditions require. Safety glasses are required in all circumstances where there is the possibility of exposure to flying debris or particles. Side shields should also be worn whenever possible.
3. Plastic face shields should be worn wherever there is the possibility of flying particles and spraying of liquids or corrosive substances.
4. A hard hat is to be worn at all times.
5. Only full-covered leather work shoes are allowed. Sneakers, canvas shoes, or shoes that are open in any way are not allowed.
6. Shirts must be worn at all times. Sleeveless shirts and tank tops are not allowed.
7. Shorts are not allowed. Full-length pants must be worn at all times.
8. Jewelry is not to be worn on the jobsite at any time. A watch may be worn unless the employee is performing any task, which may result in the watchband being caught, or an object becoming lodged between the band and skin. Watchbands should be of the expansion type, so that they would slip off if they get caught.





**PRICE SCHEDULE BREAKDOWN**

**FAC**  
**US EMBASSY LIMA PERU**

**PROJECT: REPLACE 100 FOOT STEEL FLAGPOLE**  
**SECTION: FAC**  
**LOCATION: CHANCERY COMPOUND**

**PRICE SCHEDULE BREAKDOWN**

ITEM	DESCRIPTION	UNIT	QUANTITY	LABOR US \$	MATERIAL US \$	TOTAL US \$
1.01.01	Mobilization	Glb	1			
1.01.02	Temporary construction	each	1			
1.01.03	Engineering design and CAD shop drawings	each	1			
1.01.04	Remove floor brick pavers and cheap existing concrete to allow flag removal	Glb	1			
1.01.05	Remove and dispose existing 50 foot flagpole	each	1			
1.01.06	Remove floor brick pavers and cheap existing concrete for new flagpole foundation	Glb	1			
1.01.07	Excavation for new foundation	M3	9			
1.01.08	Soil disposal	M3	9			
1.01.09	Wood framing for new foundation	M2	20			
1.01.10	Reinforced concrete 4000 PSI and rebar for new foundation	each	9			
1.01.11	Crane rental	each	1			
1.01.12	Installation of new 100 steel flagpole	each	1			
1.01.13	Electrical installations	Glb	1			
1.01.14	Replace floor brick pavers	Glb	1			
1.01.15	Tests and start up	Glb	1			
1.01.16	Supervision	Glb	1			
1.01.17	Demobilization	Glb	1			
1.01.18	As Built CAD drawings	Glb	1			
	<b>Total Direct Expenses</b>					
	Overhead & Profit					
	<b>Sub-Total</b>					
	IGV					
	<b>TOTAL</b>					

**PROPOSED PERFORMANCE CHART**

TO: COPNTRACTING OFFICER US Embassy		1. FROM	2. VIA	3. REPORT FOR PERIOD ENDING			REPORT NUMBER								
5. SOLICITATION NUMBER	7. CONTRACT DESCRIPTION		8. SUBMITTED FOR APPROVAL (SIGNATURE)	DATE	<b>LEGEND</b> BAR PROGRESS TO DATE OF REPORT ACTUAL PROGRESS CURVES SCHED PROGRESS      ACTUAL			0%      50      100							
6. LOCATION			9. APPROVAL RECOMMENED												
		10. APPROVED													
PRINCIPAL CONTRACT FEATURE	WT%	EST. COST	WK DATE=>	1	2	3	4	5	6	7	8	9	10	11	WKS/MTHS
			SCHEDULED												
			ACTUAL												100
			SCHEDULED												
			ACTUAL												
			SCHEDULED												90
			ACTUAL												
			SCHEDULED												80
			ACTUAL												
			SCHEDULED												70
			ACTUAL												
			SCHEDULED												60
			ACTUAL												
			SCHEDULED												50
			ACTUAL												
			SCHEDULED												40
			ACTUAL												
			SCHEDULED												30
			ACTUAL												
			SCHEDULED												20
			ACTUAL												
			SCHEDULED												10
			ACTUAL												
<b>TOTAL</b>	100		% COMPLETE												0
NOTICE TO PROCEED DATE: _____										COMPLETION DATE: _____					

**GENERAL SERVICES OFFICE, US EMBASSY  
REQUEST FOR PROGRESS PAYMENT (INVOICE)**

PROJECT: Contract No. \_\_\_\_\_  
Name \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_  
(Name, Address) \_\_\_\_\_

APPLICATION DATE: \_\_\_\_\_ APPLICATION NO. \_\_\_\_\_

TO: Contracting Officer, US EMBASSY

NOTE: (Must obtain COR signature before processing)

PERIOD FROM: \_\_\_\_\_ TO \_\_\_\_\_

I hereby certify, to the best of my knowledge and belief that:

Application is made for Payment, as shown below in connection with the Contract. The present status of the account for this Contract is as follows:

- (1) The amounts requested are only for performance in accordance with the specifications, terms and conditions of the contract:
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract and timely payments will be made from the proceeds of the payment covered by this certification.

ORIGINAL CONTRACT SUM . . . . . \$ \_\_\_\_\_  
NET CHANGE BY MODIFICATIONS . . . \$ \_\_\_\_\_  
CONTRACT SUM TO DATE . . . . . \$ \_\_\_\_\_  
TOTAL COMPLETED-STORED TO DATE .. \$ \_\_\_\_\_  
RETAINAGE \_\_\_\_\_ % . . . . . \$ \_\_\_\_\_  
TOTAL EARNED LESS RETAINAGE . . . \$ \_\_\_\_\_  
LESS PREVIOUS PAYMENTS . . . . . \$ \_\_\_\_\_  
CURRENT PAYMENT DUE . . . . . \$ \_\_\_\_\_

- (3) This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

ACCOUNTING DATA \_\_\_\_\_

SIGN \_\_\_\_\_  
(Title) \_\_\_\_\_  
(Date) \_\_\_\_\_

CONTRACTING OFFICER: Representative's certification of receipt of services at project site. Changes to requested amount have been initiated.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
COR

Sign and Date \_\_\_\_\_

Print phone number and mailing address of person to be notified in event the Contracting Officer finds this application to be defective.

(Address) \_\_\_\_\_

(Phone) \_\_\_\_\_

Approved for Payment of \$ \_\_\_\_\_

CONTINUATION SHEET  
FOR REQUEST FOR PROGRESS PAYMENT

CONTRACT No. \_\_\_\_\_  
APPLICATION NO. \_\_\_\_\_

ITEM NO. A.	DESCRIPTION OF WORK B.	SCHEDULED VALUE C.	WORK COMPLETED		(1)* STORED MATERIALS F.	TOTAL COMPLETED AND STORED TO DATE		BALANCE TO FINISH H (C-G)	RETAINAGE I.
			PREVIOUS APPLICATIONS D.	THIS APPLICATION E.		G (D+E+F)	%		

(1)\* STORED MATERIALS - Unincorporated material delivered to the job site. Request for payment for uninstalled material delivered to the job site must be accompanied by paid invoices.

# SHOP DRAWING/MATERIAL APPROVAL REQUEST

NOTE: ALL ENTRIES WILL BE FILLED IN BY TYPEWRITER OR PEN INK PROJECT NO: \_\_\_\_\_

FROM:

CONTRACTOR

CONTRACT NUMBER

SUBMISSION NUMBER

DATE

MORE FORMS REQUIRED

NO  YES

TYPE OF SUBMITTAL

NEW  RESUBMITTAL OF #

GOVERNMENT USE ONLY

ITEM NO	SPECIFICATION SECTION AND PARAGRAPH NO	DESCRIPTION OF MATERIAL	AP PROVED	AP PROVED AS NOTED	DISAP PROVED	INT

CONTRACTOR CERTIFIES THAT MATERIALS COMPLY WITH BUY AMERICAN ACT (FAR 52.225-09)

NO OF COPIES TO

BY (NAME AND TITLE)

SIGNATURE

(US Embassy)

COMMENTS

**FOR GOVERNMENT USE ONLY**

US EMBASSY

TO: CONTRACTING OFFICER

RECOMMEND  APPROVAL OR  DISAPPROVAL AS INDICATED AND SUBJECT TO APPLICABLE COMMENTS ABOVE.

TYPED NAME AND GRADE

SIGNATURE

DATE

CONTRACTING OFFICER

TO: CONTRACTOR

1.  APPROVED OR  DISAPPROVED AS INDICATED AND SUBJECT TO ANY APPLICABLE COMMENTS ABOVE.

2. REQUEST PROMPT RESUBMITTAL OF **DISAPPROVED** ITEMS.

TYPED NAME

SIGNATURE

DATE

### **CONTRACTOR SUBMITTAL REVIEW PROCEDURES**

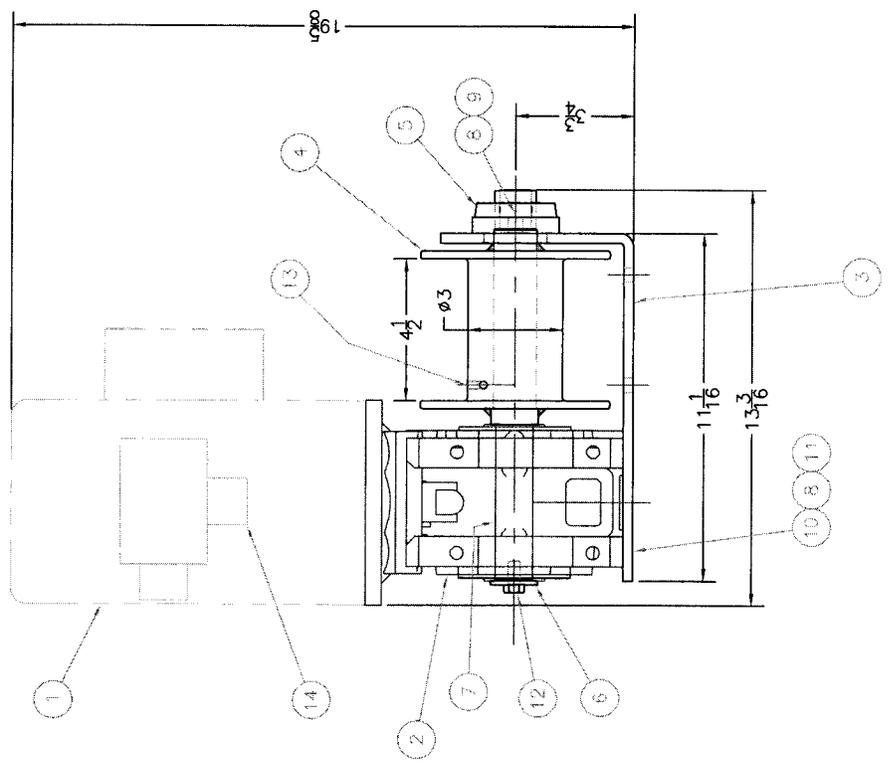
The Contractor shall submit to the Contracting Officer for approval THREE (3) copies of all shop drawings as called for under the various headings of the contract specifications. These drawings shall be complete and detailed. If approval by the Contracting Officer, each copy of the drawings will be identified as having received such approval by being stamped and dated. The Contractor shall make any corrections required by the Contracting Officer. If the Contractor considers any corrections indicated on the drawings as constituting a change to the contract drawings or specifications, notice as required under the clause entitled "Changes" will be given to the Contracting Officer. Two (2) sets of all shop drawings will be retained by the Contracting Officer and one (1) sets will be returned to the Contractor.

The approval of the drawings by the Contracting Officer shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory. Approval of such drawings will not relieve the Contractor of the responsibility for any error which may exist as the Contractor shall be responsible for the dimensions and design of adequate connections, details, and satisfactory construction of all work.

Deliver Submittals to:

Contracting Officer's Representative

REV	DATE	CHANGE NUMBER	AMENDMENTS	BY	APPD



ITEM	PART NUMBER	OPER	DESC	DESCRIPTION	MATERIAL	UNIT	QTY
14	B09-0551	X		PENDANT CONTROL, PUSH BUTTON, 115V, WVK SERIES			1
13	B52643	B		SETScrew, HEADLESS, 1/4"-20 (CABLE ANCHOR)			1
12	B50853	B		CAPSCREW, 3/8"-16 X 3/4" LG (SHAFT & MOTOR MT)	GR-5		5
11	B11-0132	B		NUT, HEX, 7/16"-14 (GEARBOX MT)			4
10	B11-0145	B		CAPSCREW, FLAT HEAD, C-SINK, 7/16"-14 X 1.5" LG	GR-5		4
9	B71124796	B		CAPSCREW, HEX HD., 7/16"-14 X 1" LG (BEARING MT)	GR-5		2
8	B50693	B		LOCKWASHER, 7/16" (GEARBOX & BEARING MT)			6
7	B120055	1		KEYSTOCK, SQUARE, 8MM - 4-7/8" LG	C1018	0.4 FT	1
6	B14-0567	X		END CAP, DRUM SHAFT			1
5	B05-0251	B		BEARING, FLANGE, 2-BOLT, $\phi 1"$			1
4	B07-0385	X		DRUM & SHAFT ASSY, 4.5" WIDE DRUM			1
3	B02-0584	X		FRAME			1
2	B04-0020	B		GEARBOX, WORM, BONFIGLIOLI, W75U, 56C FACE, 60:1			1
1	B03-0240	B		MOTOR, ELECTRIC, TEFC, 1HP, 56C, 115V, BALDOR			1



## U.S. FLAG AND FLAGPOLE

Wimberley, Texas, United States of America

MATERIAL	N/R	TITLE	FW600-30 FLAG WINCH, 115V, W/ CTRLS, 4.5" LG
CERT	N/R	NEXT ASSEMBLY	DERIVED FROM B01-0544
TEST	N/R	FIRST USED	1287
WELD	N/R	DRAWN	1
EST	N/A	CHECKED	APPROVED
LBS	N/A	DATE	08-JAN-08
ACT	N/A	SCALE	1/4
LBS	N/A	REV	B01-0584

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MM  
- TOLERANCES -

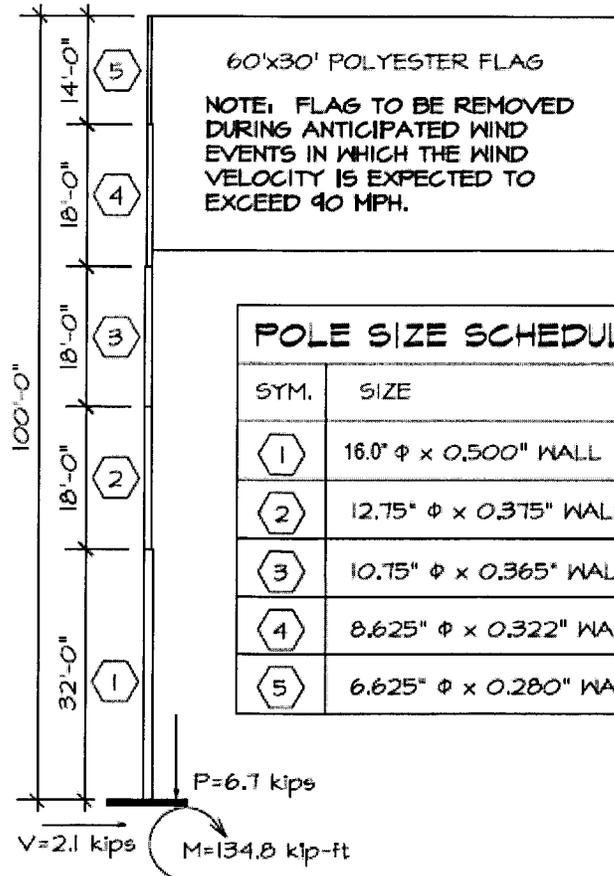
A) ANGULAR (DIN) X  
B) DECIMAL (TWO) XX  
C) FRACTIONAL (THREE) .XXX

1. GENERAL  
2. SAWING, FLAME CUTTING, SHEARING & BREAKING  
3. WELDING

± 1/2"  
± .06  
± .02  
± .01  
± 1/32  
± 1/16  
± 1/8

**Manufacture" U.S. Flag and Flagpole Supply, L.P.**

- \* 130 MPH (3 Sec Gust) Unflagged
- \* 90 MPH (3 Sec Gust) Flagged



POLE SIZE SCHEDULE	
SYM.	SIZE
①	16.0" $\Phi$ x 0.500" WALL
②	12.75" $\Phi$ x 0.375" WALL
③	10.75" $\Phi$ x 0.365" WALL
④	8.625" $\Phi$ x 0.322" WALL
⑤	6.625" $\Phi$ x 0.280" WALL

**U.S. Flag and Flagpole Supply, L.P.**

850 Bluffview Dr.  
 Wimberley, Texas 78676  
 1-800-710-9892

PROJECT:

Typical Flagpoles

DRAWING TITLE:

100' Standard Flagpole

DATE:

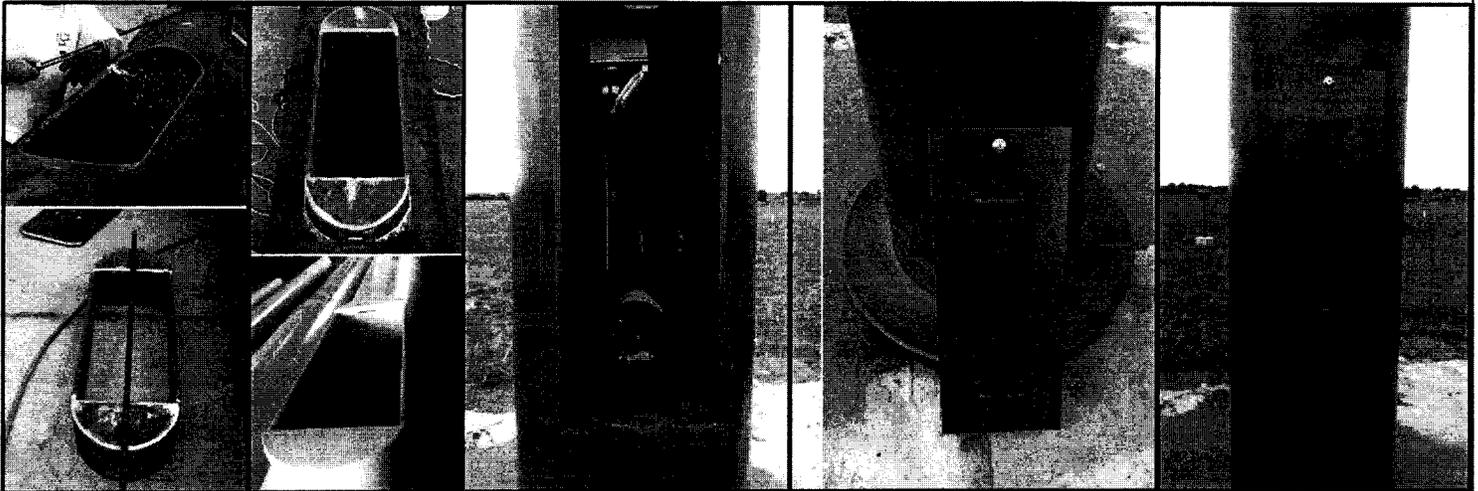
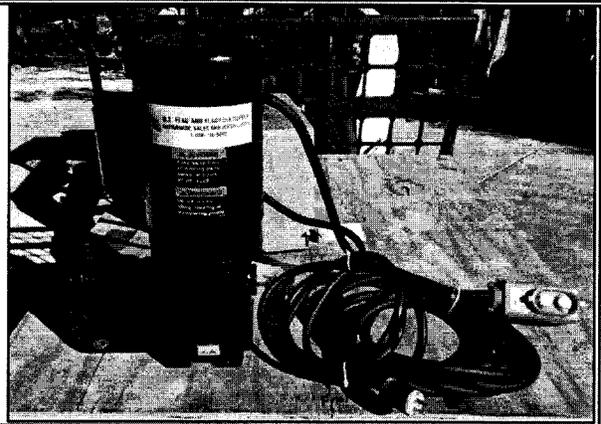
3/25/09

DRAWING NO.





U.S. Flag and Flagpole Supply L.P. Electric Winch System



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**EMBASSY OF THE UNITED STATES OF AMERICA  
LIMA, PERU  
OPERATION AND MAINTENANCE MANUALS  
VOLUME 4  
ITEM M**

---

**FLAGPOLE  
BY EDER FLAGPLE CO.**

- PRODUCT DETAILS AND DESCRIPTIONS
- PROJECT SHOP DRAWING

**SPECIFICATION SECTION: 10350**

**REFERENCES:**

**SUBMITTAL # 0149**

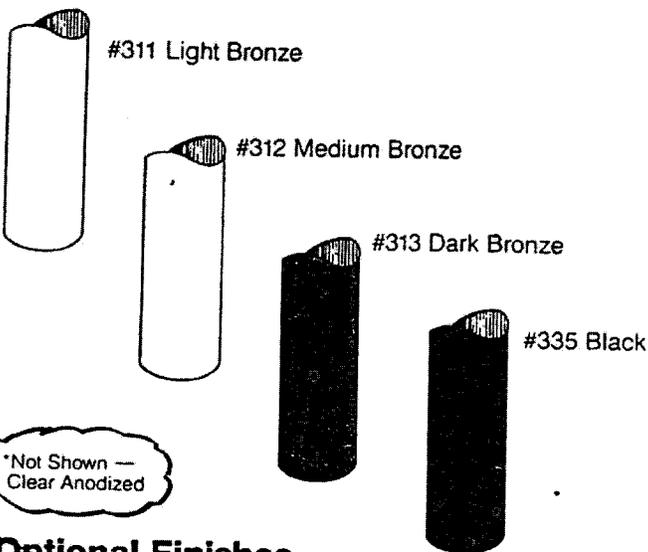
**REPLACEMENT PRODUCT  
PROCUREMENT MANUAL ITEM # 76**

# Cone Tapered Aluminum Flagpoles

## Deep Satin Lustre Finish

Our Flagpoles are highly polished with fine grain aluminum oxide cloth resulting in a high quality, deep Satin Lustre Finish. This finish represents the ultimate in architectural finishes for aluminum flagpoles. The elegant, soft sheen remains maintenance free.

## Duranodic Finishes\*



\*Not Shown — Clear Anodized

## Optional Finishes

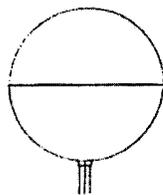
In addition to the Standard Deep Satin Lustre Finish and the Duranodic Finishes, we offer alternate finishes which may suit particular job conditions better.

- **Kalcolor**—Light Amber, Amber, Gold, Statuary Bronze.
- **Kynar 500**—Your choice of color.
- **Duracron**—Your choice of color. (Baked Acrylic)
- **Polyurethane**—Your choice of color.
- **Gold Anodized**—Shafts up to 20' - 0".

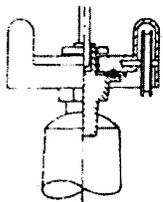
Our Aluminum Flagpoles are precision fabricated from new, 6063-T6 tubing utilizing the industry's most sophisticated, state-of-the-art manufacturing processes. The conical portion tapers approximately 1" in every 5½ Ft. Poles 38'6" and shorter are shipped in one piece. Longer lengths are shipped in sections and will be factory fitted with a self-aligning sleeve which requires no field welding.

poles are double spiral wrapped with protective paper, packed in hard fiber tube and shipped from the largest in-stock inventory in the U.S.

## Standard Fittings



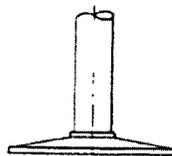
- ✓ **Ball**—Constructed of 14 gauge aluminum with flush seam and Gold Anodized Finish.



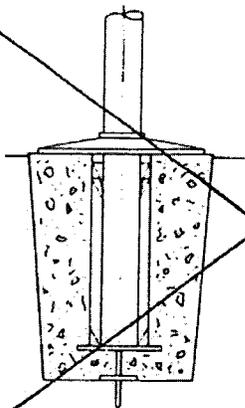
- ✓ **Truck**—Cast aluminum, non-fouling revolving type with (26) stainless steel ball bearings and (2) 2¾" machined aluminum sheaves. (Pulleys)



- ✓ **Cleats**—Two 9" cast aluminum with Deep Satin Lustre Finish. Secured with (2) ¼" - 20 stainless steel flat head machine screws.



- ✓ **Collar**—The ornamental base or flash collar, shall be spun aluminum, type FCS. The diameter of the Collar shall be 1" larger than the foundation sleeve.

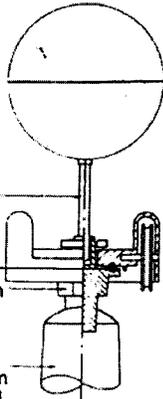


- ✓ **Foundation Sleeve**—16 gauge galvanized corrugated steel tube with lightning spike, base plate, support plate and centering wedges.

# Architectural Ground Set

## Revolving Truck Detail

1. Spun 14 ga. aluminum ball
2. Ball or ornament spindle
3. Stainless steel ball bearings
4. Aluminum sheaves (Pulleys)
5. Cast aluminum body and stem



## Self-Locking Seam Field Joint

Precision-machined, fitted, self-aligning, internal sleeve designed for a perfectly mated field joint. Upon proper assembly, a hair-line joint will occur.



## Foundation Dimensions

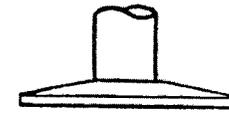
EXPOSED HEIGHT	A	B	C	D	E	F	G	H	K
20'-0"	3'-0"	6"	18"	8"	12"	6"	3'-6"	30"	24"
25'-0"	3'-0"	6"	18"	10"	14"	6"	3'-6"	30"	24"
30'-0"	3'-0"	6"	18"	10"	14"	6"	3'-6"	30"	24"
35'-0"	3'-6"	6"	18"	10"	14"	6"	4'-0"	36"	30"
40'-0"	4'-0"	6"	18"	12"	16"	6"	4'-6"	42"	36"
45'-0"	4'-6"	6"	24"	12"	16"	6"	5'-0"	48"	42"
50'-0"	5'-0"	8"	24"	14"	18"	6"	5'-8"	48"	42"
60'-0"	6'-0"	10"	24"	14"	18"	6"	6'-10"	48"	42"
70'-0"	7'-0"	12"	24"	14"	18"	6"	8'-0"	60"	48"
80'-0"	8'-0"	12"	24"	14"	18"	6"	9'-0"	60"	48"

Extreme caution should be used when installing flagpoles near overhead power lines or in the vicinity of buried cables.

10350/EDD  
BuyLine 2693

- Gold Anodized spun aluminum ball, flush seam
- Double sheave truck, cast aluminum, revolving non-fouling type.
- 4 swivel snaps
- Two sets of halyards

9" cast aluminum cleats

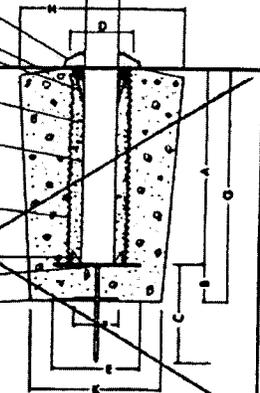


Standard Flash Collar

A	B	C
3'-6"	12"	2 1/2"
7'-8"	16"	3"
10"	22"	3 1/2"
12"	30"	4"

- Aluminum flash collar
- 3000 PSI concrete
- Hardwood wedges (supplied by others)

- Dry sand tightly tamped after aligning pole
- Black asphaltum paint on surface of pole below grade
- Foundation sleeve hot dip galvanized steel
- Steel centering wedges
- Steel base plate
- Steel support plate welded to ground spike



Model	Exposed Height	Overall Height	Diameter		Wall	Length		Ball Dia.	Ship Sections	Sleeve Dia.	Flag Size	Weight Lbs.
			Butt	Top		Tapered	Straight					
EC20	20'-0"	23'-0"	5"	3"	.188"	11'-0"	12'-0"	5"	1	8"	3' x 5'	141
EC25	25'-0"	28'-0"	5 1/2"	3 1/2"	.188"	11'-0"	17'-0"	6"	1	10"	4' x 6'	178
EC30	30'-0"	33'-0"	6"	3 1/2"	.188"	13'-9"	19'-3"	8"	1	10"	5' x 8'	218
EC35	35'-0"	38'-6"	7"	3 1/2"	.188"	19'-3"	19'-3"	8"	1	10"	6' x 10'	263
EC40	40'-0"	44'-0"	8"	3 1/2"	.188"	24'-9"	19'-3"	8"	2	12"	8' x 12'	323
EC45	45'-0"	49'-0"	8"	3 1/2"	.188"	24'-9"	24'-9"	8"	2	12"	8' x 12'	365
EC50	50'-0"	55'-0"	10"	4"	.188"	33'-0"	22'-0"	10"	2	15"	10' x 15'	501
EC60	60'-0"	66'-0"	12"	5"	.250"	44'-0"	22'-0"	12"	3	18"	12' x 18'	679
EC70	70'-0"	77'-0"	12"	5"	.312"	66'-3"	10'-9"	12"	3	18"	15' x 25'	856
EC80	80'-0"	88'-0"	12"	5"	.375"	66'-3"	21'-9"	12"	4	18"	20' x 30'	1182

# Counter-Balanced, Tilting Shoe Base and Shoe Base Aluminum Flagpoles

## Counter-Balanced Tilting

Uniquely designed with the heavy steel counterweight inside the flagpole shaft to avoid disturbing the graceful appearance of the tapered aluminum shaft. Made to the same specifications as our "ground set" flagpoles, with the exception of the base mounting detail. The base structure consists of two steel channel supports welded to a base plate. The aluminum flagpole shaft is suspended by the pivot bolt and secured by a locking clip and bolt. Anchor bolts furnished for mounting into a concrete base.

For further detailed information ask for our product shop drawing "Counterbalanced Tilting Aluminum Flagpoles."

## Tilting Shoe Base Cone Tapered

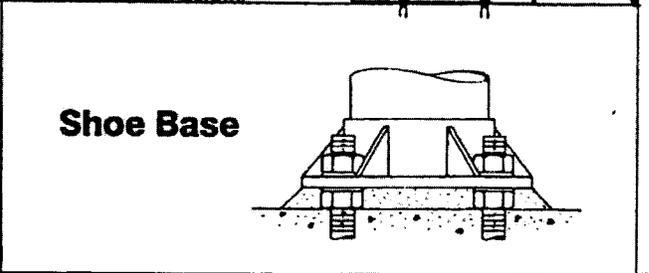
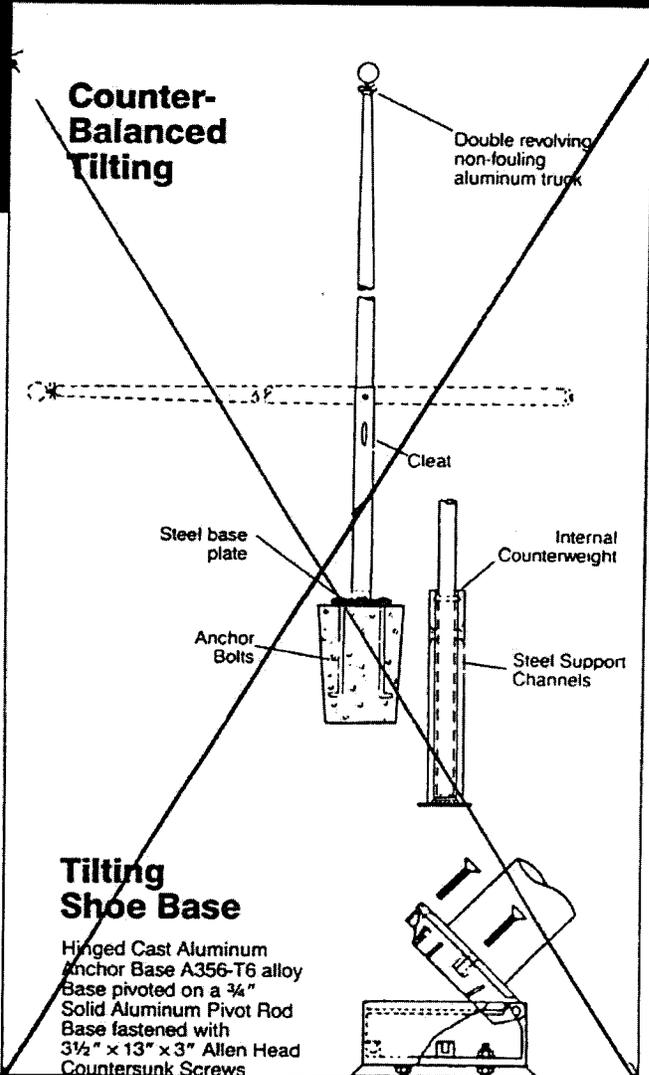
All Flagpoles with 4", 5" or 6" diameter can be adapted for tilting shoe base mounting. All shafts are fabricated from new 6063-T6 aluminum tubing. Except for mounting method, all specifications shown for the Architectural, Economy and Atlas Flagpole lines apply. Tilting base is cast from A-356 aluminum alloy and is heat-treated to a T-6 condition. Base is joined to pole with a continuous circumferential weld at outside top and inside bottom of shoe base. Tilting section of hinged base is held vertical by three (3) 1/2" x 13" x 3" stainless steel Allen head screws.

Anchor bolts have double nuts, two flat washers and one lock washer. Pleasing base design eliminates need for flash collar.

## Shoe Base Cone Tapered

Flagpoles can be adapted for shoe base mounting. All shafts are fabricated from new, 6063-T6 aluminum tubing. Except for mounting method, all specifications shown for Architectural, Economy and Atlas Flagpole lines apply. Our shoe base is cast from A-356 aluminum alloy and is heat-treated to a T-6 condition. Base is joined to pole with a continuous circumferential weld at outside top and inside bottom of shoe base.

Anchor bolts have double nuts, two flat washers and one lock washer. Spun aluminum collar is standard unless otherwise specified.



## SPECIFICATIONS:

### Counter-Balanced Tilting Poles

Exposed Height	Diameter		Wall	Length	
	Top	Butt		Tapered	Straight
25'-0"	3 1/2"	5 1/2"	.188"	11'-0"	14'-0"
30'-0"	3 1/2"	6"	.188"	13'-9"	16'-3"
35'-0"	3 1/2"	7"	.188"	19'-3"	15'-9"
40'-0"	3 1/2"	8"	.188"	24'-9"	15'-3"
→ 50'-0"	4"	10"	.188"	33'-0"	17'-0"

### Shoe Base

Pole Diameter	Bolt Projection	Bolt Size
3"	3 1/4"	5/8" x 16"
4"	3 1/4"	3/4" x 24"
5"	3 1/4"	3/4" x 24"
6"	3 1/4"	1" x 36"
7"	3 1/4"	1" x 36"
8"	3 1/4"	1" x 36"
→ 10"	3 1/4"	1" x 40"

Exposed Height	Shipped Section	Ball Diameter	Base Plate	Anchor Bolts
25'-0"	1	6"	1/2" x 18"	3/4" x 24"
30'-0"	1	6"	1/2" x 18"	1" x 36"
35'-0"	1	8"	1/2" x 18"	1" x 36"
40'-0"	2	8"	1/2" x 18"	1" x 36"
→ 50'-0"	2	10"	1/2" x 24"	1" x 40"

0" - .14 GA. SPUN ALUMINUM BALL  
CLEAR ANODIZED

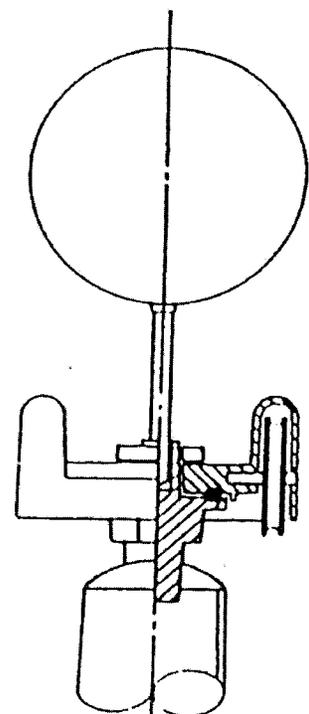
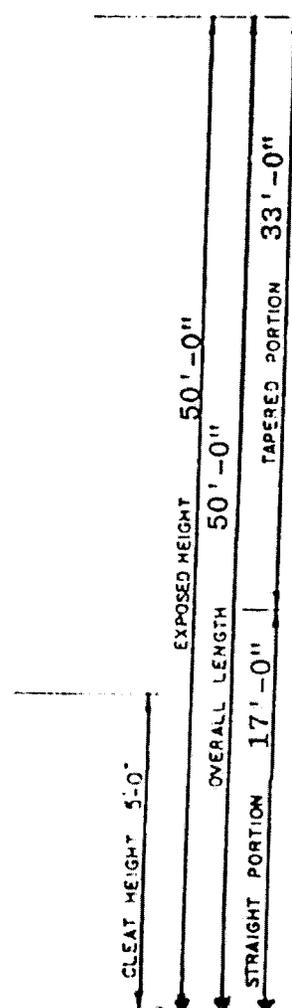
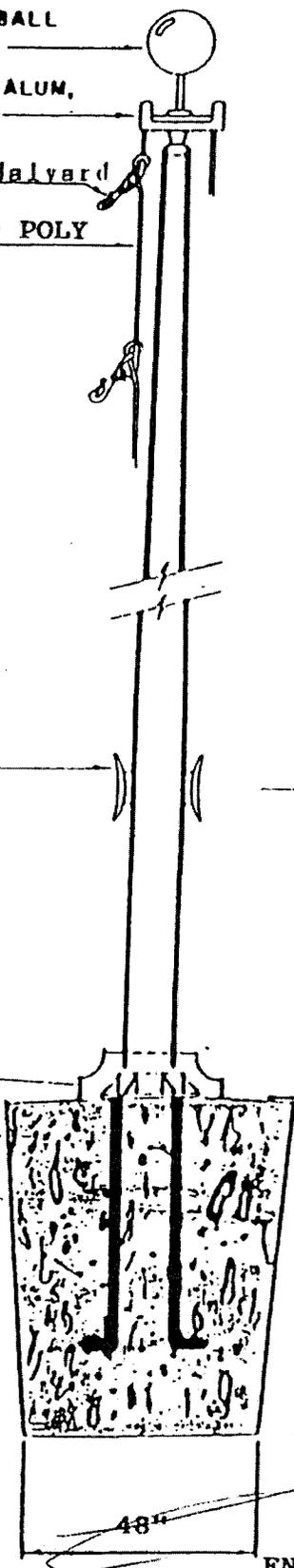
OU SHEAVE TRUCK, CAST ALUM,  
EV ING, NON-FOULING TYPE.

BRONZE SWIVEL SNAPS Per Halyard  
2 SETS OF HALYARDS - #10 POLY

2 8" CAST ALUM CLEATS  
9"

ALUMINUM COLLAR  
3000 PSI CONCRETE  
4-ANCHOR BOLTS

EC50SB

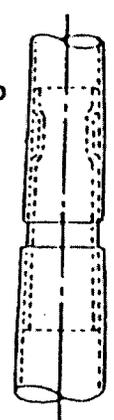


REVOLVING, NON-FOULING  
TRUCK. CAST ALUMINUM  
BODY, STAINLESS STEEL  
BALL BEARINGS AND  
NYLON SHEAVES.

ALL SHAFTS WITH AN OVER-  
ALL LENGTH OF MORE THAN  
38'-6" ARE SHIPPED IN TWO  
SECTIONS.

EACH SECTION MATCH MARKED  
FOR FIELD ASSEMBLY.  
EXPOSED PORTION OF JAM  
SLEEVE MUST BE WELL  
LUBRICATED PRIOR TO  
ASSEMBLY.

1 1/2" MAX. SHOP GAP  
ALLOWED FOR FIELD FITTING  
(RAM FOR TIGHT JOINT)



ENTASIS

AMERICAN OFFICE ENNER, LA-EXPORT	1 GRD. SET TAPERED ALUM FLAGPOLE ALLOY 6063-T6 EXP. HT. 50' OVERALL HT. 50' SHIP IN 3 SEC BUTT DIA 10" TOP DIA 3 1/2" WALL THICKNESS .88	EDER FLAGPOLE CO OAK CREEK, WI.	DATE 3-25-93
LA JONES CONST DIVISION 10	FINISH: 150 GRIT HIGH POLISH CLEAR ANODIZED AS PER SPEC SEC 10350 202 C1 b a c		REV
			JOB 1195

CHANCERY BUILDING

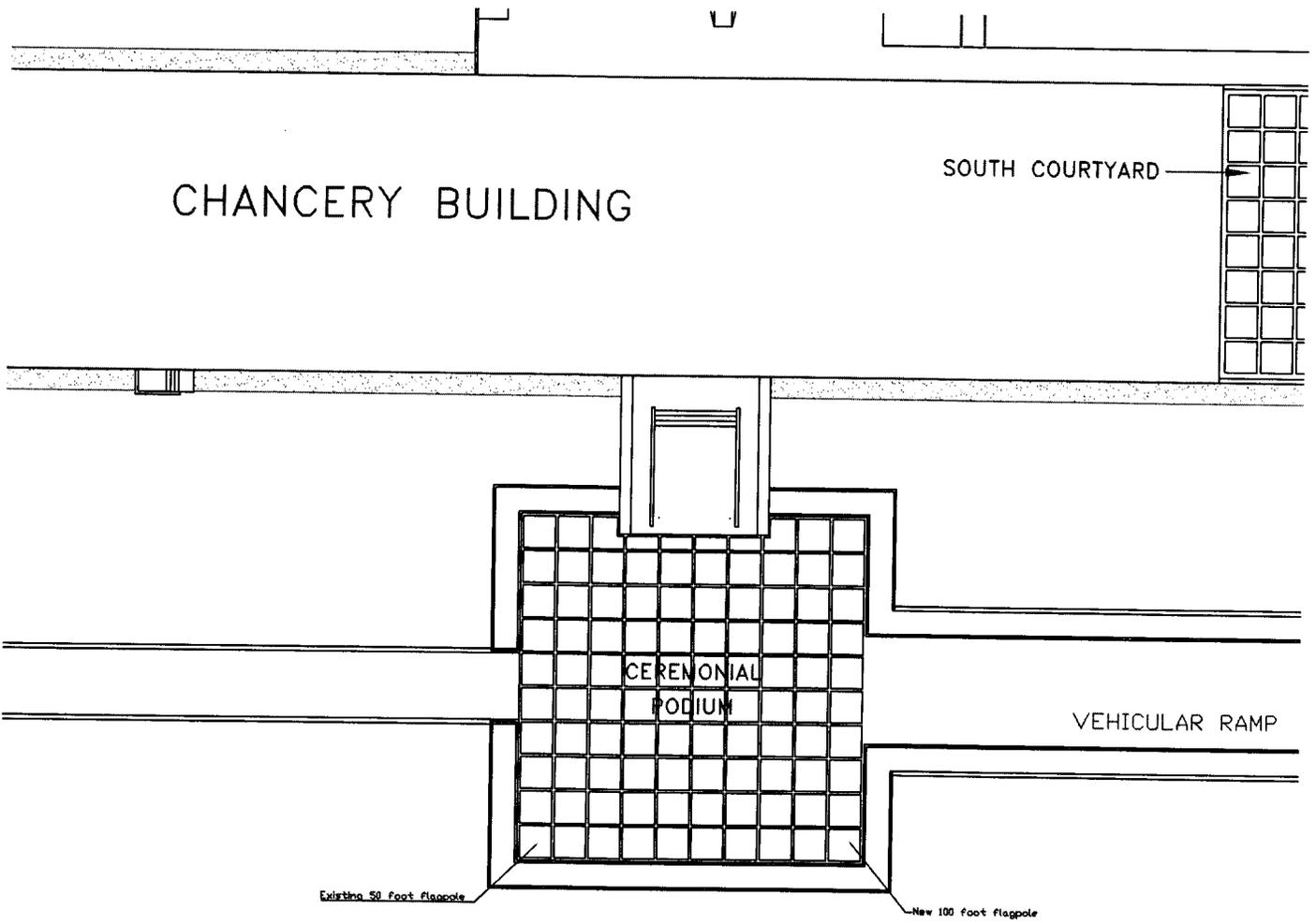
SOUTH COURTYARD

CEREMONIAL  
PODIUM

VEHICULAR RAMP

Existing 50 foot flagpole

New 100 foot flagpole



## Instructions – Ground Sleeve

**INSTALLERS TAKE NOTICE!** Overhead electrical lines, buried utility cables, and natural gas lines pose situations that require **EXTREME CARE DURING INSTALLATION** of foundation and flagpoles.

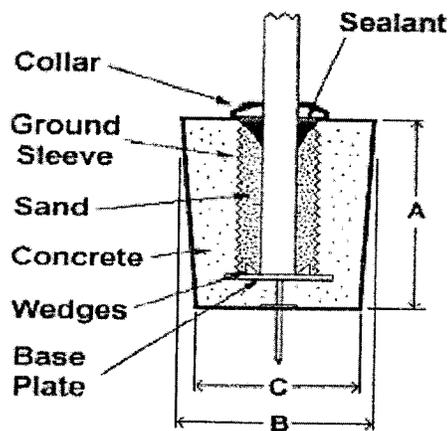
**Use concrete (3000 psi), unless otherwise specified.**

1. Dig hole approximately as shown on chart. **DIMENSIONS ARE FOR “NORMAL SOIL CONDITIONS”**
2. Set sleeve slightly above finished grade level.
3. Set sleeve plumb in center of hole and begin to pour concrete around outside of sleeve. Be sure to have sleeve secured to insure that it does not raise out of hole due to concrete filling in under it.
4. During pouring of concrete, stop and check to be sure sleeve stays in center and level.
5. Cover sleeve opening to prevent accumulation of debris and water.

**Foundation Dimensions** – Dimensions shown are the minimum recommended for foundations “under normal soil conditions”. This suggests; good, firm, dry soil. If you have any questions consult with an engineer in your area.

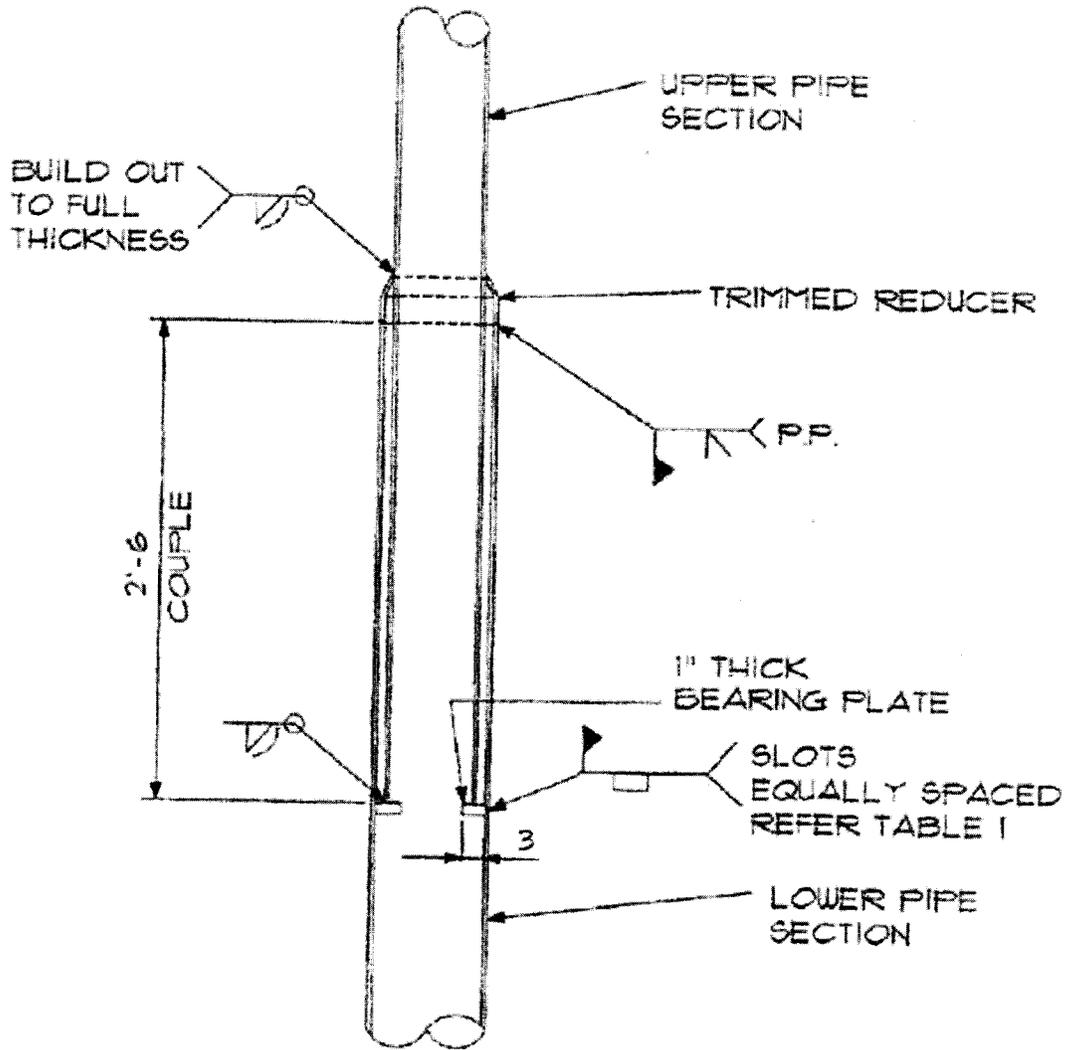
Please note that the dimensions below are for general foundation/budgeting purposes only. US Flag highly recommends that a soils report be done by a licensed engineer and a licensed engineer be engaged to do the complete engineering on the foundation.

<b>Flagpole</b>							
Exposed Height	Overall Length	Butt	Sleeve Diameter	Sleeve Length	A	B	C
100'	110'	14"	21"	10'	10.5'	60"	60"
120'	132'	16"	24"	12'	12.5'	60"	60"
130'	143'	18"	24"	13'	13.5'	72"	72"
140'	154'	20"	28"	14'	14.5'	84"	84"
150'	165'	24"	30"	15'	15.5'	84"	84"
165'	182'	30"	36"	17'	17.5'	84"	84"



**Groundset**

# Typical Splice Detail



TYPICAL UPPER SECTION TO LOWER SECTION CONNECTION



# Protective & Marine Coatings

# MACROPOXY® 646 FAST CURE EPOXY

PART A B58-600  
PART B B58V600

SERIES HARDENER

Revised: October 8, 2014

## PRODUCT INFORMATION

4.53

### PRODUCT DESCRIPTION

MACROPOXY 646 FAST CURE EPOXY is a high solids, high build, fast drying, polyamide epoxy designed to protect steel and concrete in industrial exposures. Ideal for maintenance painting and fabrication shop applications. The high solids content ensures adequate protection of sharp edges, corners, and welds. This product can be applied directly to marginally prepared steel surfaces.

- Low VOC
- Low odor
- Outstanding application properties
- Meets Class A requirements for Slip Coefficient, 0.36 @ 6 mils / 150 microns dft (Mill White only)
- Chemical resistant
- Abrasion resistant

### PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Mill White, Black and a wide range of colors available through tinting
Volume Solids:	72% ± 2%, mixed, Mill White
Weight Solids:	85% ± 2%, mixed, Mill White
VOC (EPA Method 24): mixed	Unreduced: <250 g/L; 2.08 lb/gal Reduced 10%: <300 g/L; 2.50 lb/gal
Mix Ratio:	1:1 by volume

### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	7.0 (175)	13.5 (338)
Dry mils (microns)	5.0* (125)	10.0* (250)
~Coverage sq ft/gal (m <sup>2</sup> /L)	116 (2.8)	232 (5.7)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1152 (28.2)	

\*May be applied at 3.0-10.0 mils (75-250 microns) dft as an intermediate coat in a multi-coat system. Refer to Recommended Systems (page 2). See Performance Tips section also.

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

### Drying Schedule @ 7.0 mils wet (175 microns):

	@ 35°F/1.7°C	@ 77°F/25°C	@ 100°F/38°C
To touch:	4-5 hours	2 hours	1.5 hours
To handle:	48 hours	8 hours	4.5 hours
To recoat:			
minimum:	48 hours	8 hours	4.5 hours
maximum:	1 year	1 year	1 year
To cure:			
Service:	10 days	7 days	4 days
Immersion:	14 days	7 days	4 days
Pot Life:	10 hours	4 hours	2 hours
Sweat-in-time:	30 minutes	30 minutes	15 minutes

### When used as an intermediate coat as part of a multi-coat system:

#### Drying Schedule @ 5.0 mils wet (125 microns):

	@ 35°F/1.7°C	@ 77°F/25°C	@ 100°F/38°C
To touch:	3 hours	1 hour	1 hour
To handle:	48 hours	4 hours	2 hours
To recoat:			
minimum:	16 hours	4 hours	2 hours
maximum:	1 year	1 year	1 year

### PRODUCT CHARACTERISTICS (CONT'D)

Shelf Life:	36 months, unopened Store indoors at 40°F (4.5°C) to 110°F (43°C).
Flash Point:	91°F (33°C), TCC, mixed
Reducer/Clean Up: In California:	Reducer, R7K15 Reducer R7K111 or Oxsol 100

### PERFORMANCE CHARACTERISTICS

Substrate\*: Steel  
Surface Preparation\*: SSPC-SP10/NACE 2  
System Tested\*:

1 ct. Macropoxy 646 Fast Cure @ 6.0 mils (150 microns) dft  
\*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	84 mg loss
Accelerated Weathering-QUV <sup>1</sup>	ASTM D4587, QUV-A, 12,000 hours	Passes
Adhesion	ASTM D4541	1,037 psi
Corrosion Weathering <sup>1</sup>	ASTM D5894, 36 cycles, 12,000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 per rusting
Nuclear Decontamination	ASTM D4256/ANSI N 5.12	99% Water Wash; 95% Overall
Direct Impact Resistance <sup>2</sup>	ASTM D2794	120 in. lb.
Dry Heat Resistance	ASTM D2485	250°F (121°C)
Exterior Durability	1 year at 45° South	Excellent, chalks
Flexibility	ASTM D522, 180° bend, 3/4" mandrel	Passes
Fuel Contribution	NFPA 259	5764 btu/lb
Humidity Resistance	ASTM D4585, 6000 hours	No blistering, cracking, or rusting
Immersion	1 year fresh and salt water	Passes, no rusting, blistering, or loss of adhesion
Radiation Tolerance	ASTM D4082 / ANSI 5.12	Pass at 21 mils (525 microns)
Pencil Hardness	ASTM D3363	3H
Salt Fog Resistance <sup>1</sup>	ASTM B117, 6,500 hours	Rating 10 per ASTM D610 for rusting; Rating 9 per ASTM D1654 for corrosion
Slip Coefficient, Mill White <sup>*</sup>	AISC Specification for Structural Joints Using ASTM A325 or ASTM A490 Bolts	Class A, 0.36
Surface Burning	ASTM E84/NFPA 255	Flame Spread Index 20; Smoke Development Index 35 (at 18 mils or 450 microns)
Water Vapor Permeance	ASTM D1653, Method B	1.16 US perms

Epoxy coatings may darken or discolor following application and curing.

\*Refer to Slip Certification document

Footnotes:

<sup>1</sup> Zinc Clad II Plus Primer

<sup>2</sup> Two coats of Macropoxy 646 Fast Cure Epoxy

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.



# Protective & Marine Coatings

# MACROPOXY® 646 FAST CURE EPOXY

PART A B58-600  
PART B B58V600

SERIES HARDENER

Revised: October 8, 2014

## PRODUCT INFORMATION

4.53

### RECOMMENDED USES

- Marine applications
- Fabrication shops
- Pulp and paper mills
- Power plants
- Offshore platforms
- Nuclear Power Plants
- Nuclear fabrication shops
- Refineries
- Chemical plants
- Tank exteriors
- Water treatment plants
- DOE Nuclear Fuel Facilities
- DOE Nuclear Weapons Facilities
- Mill White and Black are acceptable for immersion use for salt water and fresh water, not acceptable for potable water
- Suitable for use in USDA inspected facilities
- Conforms to AWWA D102 OCS #5
- Conforms to MPI # 108
- This product meets specific design requirements for non-safety related nuclear plant applications in Level II, III and Balance of Plant, and DOE nuclear facilities\*.
- \* Nuclear qualifications are NRC license specific to the facility.
- Suitable for use in the Mining & Minerals Industry

### RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
<b>Immersion and atmospheric:</b>		
<b>Steel:</b>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
<b>Concrete/Masonry, smooth:</b>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
<b>Concrete Block:</b>		
1 ct. Kem Cati-Coat HS Epoxy Filler/Sealer	10.0-20.0	(250-500)
<i>as needed to fill voids and provide a continuous substrate.</i>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
<b>Atmospheric:</b>		
<b>Steel:</b>		
<i>(Shop applied system, new construction, AWWA D102, can also be used at 3 mils / 75 microns minimum dry film when used as an intermediate coat as part of a multi-coat system)</i>		
1 ct. Macropoxy 646 Fast Cure Epoxy	3.0-6.0	(75-150)
1-2 cts. of recommended topcoat		
<b>Steel:</b>		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
<b>Steel:</b>		
1 ct. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
1-2 cts. Acrolon 218 Polyurethane	3.0-6.0	(75-150)
or Hi-Solids Polyurethane	3.0-5.0	(75-125)
or SherThane 2K Urethane	2.0-4.0	(50-100)
or Hydrogloss	2.0-4.0	(50-100)
<b>Steel:</b>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
1-2 cts. Tile-Clad HS Epoxy	2.5-4.0	(63-100)
<b>Steel:</b>		
1 ct. Zinc Clad II Plus	2.0-4.0	(50-100)
1 ct. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
1-2 cts. Acrolon 218 Polyurethane	3.0-6.0	(75-150)
<b>Steel:</b>		
1 ct. Zinc Clad III HS	3.0-5.0	(75-125)
or Zinc Clad IV	3.0-5.0	(75-125)
1 ct. Macropoxy 646 Fast Cure Epoxy	3.0-10.0	(75-250)
1-2 cts. Acrolon 218 Polyurethane	3.0-6.0	(75-150)
<b>Aluminum:</b>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)
<b>Galvanizing:</b>		
2 cts. Macropoxy 646 Fast Cure Epoxy	5.0-10.0	(125-250)

### FIRETEX ONLY:

**Steel & Galvanized Substrates being primed for FIRETEX only:**  
1 ct. Macropoxy 646 Fast Cure Epoxy 2.0-5.0 (50-125)

The systems listed above are representative of the product's use, other systems may be appropriate.

### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

**Iron & Steel**

Atmospheric: SSPC-SP2/3  
Immersion: SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile  
Aluminum: SSPC-SP1  
Galvanizing: SSPC-SP1; See Surface Preparations section on page 3 for application of FIRETEX intumescent coating systems

**Concrete & Masonry**

Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3  
Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 2-4

### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 5	3
Brush-Off Blast	Sa 1	Sa 1	SP 5	4
Hand Tool Cleaning	St 2	St 2	SP 2	1
Rusted	St 2	St 2	SP 2	2
Pitted & Rusted	St 2	St 2	SP 2	3
Power Tool Cleaning	St 3	St 3	SP 3	1
Rusted	St 3	St 3	SP 3	2
Pitted & Rusted	St 3	St 3	SP 3	3

### TINTING

Tint Part A with Maxitones at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Tinting is not recommended for immersion service.

### APPLICATION CONDITIONS

Temperature: 35°F (1.7°C) minimum, 120°F (49°C) maximum (air and surface)  
40°F (4.5°C) minimum, 120°F (49°C) maximum (material)  
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

Packaging:  
Part A: 1 gallon (3.78L) and 5 gallon (18.9L) containers  
Part B: 1 gallon (3.78L) and 5 gallon (18.9L) containers

Weight: 12.9 ± 0.2 lb/gal ; 1.55 Kg/L  
mixed, may vary by color

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.  
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



# Protective & Marine Coatings

# MACROPOXY® 646 FAST CURE EPOXY

PART A B58-600  
PART B B58V600

SERIES  
HARDENER

Revised: October 8, 2014

## APPLICATION BULLETIN

4.53

### SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

#### Iron & Steel, Atmospheric Service:

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel within 8 hours or before flash rusting occurs.

#### Iron & Steel, Immersion Service:

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned.

#### Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1.

#### Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1 (recommended solvent is VM&P Naphtha). When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. In preparing galvanized steel substrates for the application of FIRE-TEX intumescent coating systems, Surface Preparation Specification SSPC-SP 16 must be followed obtaining a surface profile of minimum 1.5 mils (38 microns). Optimum surface profile will not exceed 2.0 mils (50 microns).

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

#### Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 2-4.

#### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.

SSPC-SP 13/Nace 6 Surface Preparation of Concrete.

ICRI No. 310.2R Concrete Surface Preparation.

#### Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 4	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-

### APPLICATION CONDITIONS

Temperature:	35°F (1.7°C) minimum, 120°F (49°C) maximum (air and surface) 40°F (4.5°C) minimum, 120°F (49°C) maximum (material) At least 5°F (2.8°C) above dew point
Relative humidity:	85% maximum

### APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up ..... Reducer R7K15  
In California ..... Reducer R7K111

#### Airless Spray

Pump.....	30:1
Pressure.....	2800 - 3000 psi
Hose.....	1/4" ID
Tip.....	.017" - .023"
Filter.....	60 mesh
Reduction.....	As needed up to 10% by volume

#### Conventional Spray

Gun.....	DeVilbiss MBC-510
Fluid Tip.....	E
Air Nozzle.....	704
Atomization Pressure.....	60-65 psi
Fluid Pressure.....	10-20 psi
Reduction.....	As needed up to 10% by volume
Requires oil and moisture separators	

#### Brush

Brush.....	Nylon/Polyester or Natural Bristle
Reduction.....	Not recommended

#### Roller

Cover.....	3/8" woven with solvent resistant core
Reduction.....	Not recommended

#### Plural Component Spray... Acceptable

Refer to April 2010 Technical Bulletin - "Application Guidelines for Macroxy 646 Fast Cure Epoxy & Recoatable Epoxy Primer Utilizing Plural Component Equipment"

If specific application equipment is not listed above, equivalent equipment may be substituted.



# Protective & Marine Coatings

# MACROPOXY® 646 FAST CURE EPOXY

PART A B58-600  
PART B B58V600  
SERIES HARDENER

Revised: October 8, 2014

## APPLICATION BULLETIN

4.53

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated. Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated prior to application. Re-stir before using. If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in. Apply paint at the recommended film thickness and spreading rate as indicated below:

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	7.0 (175)	13.5 (338)
Dry mils (microns)	5.0* (125)	10.0* (250)
~Coverage sq ft/gal (m <sup>2</sup> /L)	116 (2.8)	232 (5.7)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1152 (28.2)	

\*May be applied at 3.0-10.0 mils (75-250 microns) dft in atmospheric conditions. Refer to Recommended Systems (page 2). See Performance Tips section also.

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 7.0 mils wet (175 microns):

	@ 35°F/1.7°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	4-5 hours	2 hours	1.5 hours
To handle:	48 hours	8 hours	4.5 hours
To recoat:			
minimum:	48 hours	8 hours	4.5 hours
maximum:	1 year	1 year	1 year
To cure:			
Service:	10 days	7 days	4 days
Immersion:	14 days	7 days	4 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent. Paint temperature must be at least 40°F (4.5°C) minimum.

Pot Life: 10 hours 4 hours 2 hours  
Sweat-in-time: 30 minutes 30 minutes 15 minutes

#### When used as an intermediate coat as part of a multi-coat system:

##### Drying Schedule @ 5.0 mils wet (125 microns):

	@ 35°F/1.7°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	3 hours	1 hour	1 hour
To handle:	48 hours	4 hours	2 hours
To recoat:			
minimum:	16 hours	4 hours	2 hours
maximum:	1 year	1 year	1 year

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer R7K15. Clean tools immediately after use with Reducer R7K15. In California use Reducer R7K111. Follow manufacturer's safety recommendations when using any solvent.

### PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R7K15. In California use Reducer R7K111.

Tinting is not recommended for immersion service.

Use only Mill White and Black for immersion service.

Insufficient ventilation, incomplete mixing, miscatalyzation, and external heaters may cause premature yellowing.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.

When coating over aluminum and galvanizing, recommended dft is 2-4 mils (50-100 microns).

Acceptable for Concrete Floors.

Can be used as a metalizing sealer. Consult Technical Bulletin - Sealers for Thermal Spray Metalizing, or your local Sherwin-Williams representative.

Refer to Product Information sheet for additional performance characteristics and properties.

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### DISCLAIMER

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### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



# Protective & Marine Coatings

# SHERTHANE® 2K URETHANE

PART A  
PART B

B65-150 SERIES  
B65V150

GLOSS  
HARDENER

## PRODUCT INFORMATION

Revised 10/12

5.24

### PRODUCT DESCRIPTION

SHERTHANE 2K URETHANE is a 2-component, low VOC, aliphatic acrylic modified polyurethane designed for use in industrial environments.

- A chemical and abrasion resistant urethane enamel.
- A heavy duty maintenance coating for use in "high visibility areas."
- Outstanding application procedures

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Gloss
<b>Color:</b>	Wide range of colors available
<b>Volume Solids:</b>	64% ± 2% mixed, may vary by color
<b>Weight Solids:</b>	77% ± 2%, mixed, may vary by color
<b>VOC (EPA method #24):</b>	
Unreduced:	<340 g/L; 2.8 lb/gal
Reduced 5%:	<340 g/L; 2.8 lb/gal May vary by color
<b>Mix Ratio:</b>	4:1 by volume

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>3.0 (75)</b>	<b>6.0 (150)</b>
<b>Dry mils (microns)</b>	<b>2.0 (50)</b>	<b>4.0 (100)</b>
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>256 (6.3)</b>	<b>512 (12.5)</b>
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1024 (25.0)</b>	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 4.0 mils wet (100 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
<b>To touch:</b>	5 hours	1 hour	30 minutes
<b>To handle:</b>	16 hours	4 hours	2 hours
<b>To recoat:</b>			
<b>minimum:</b>	16 hours	4 hours	2 hours
<b>maximum:</b>	3 months	3 months	3 months
<b>To cure:</b>	14 days	7 days	7 days
<b>Pot Life:</b>	12 hours	6 hours	2 hours
<b>Sweat-in-Time:</b>	None required		

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

<b>Shelf Life:</b>	Part A - 36 months, unopened Part B - 12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
<b>Flash Point:</b>	95°F (35°C), mixed (Seta Flash)
<b>Reducer/Clean Up:</b>	Xylene, R2K4

### RECOMMENDED USES

Use over prepared substrates in industrial environments, such as:

- Offshore platforms
- Rolling stock
- Paper mills
- Clean rooms
- Conveyors
- Refineries
- Exterior surfaces of steel tanks
- Structural steel
- Chemical processing equipment
- Exterior metal siding and trim
- Oil field machinery
- Handrails

- Suitable for use in USDA inspected facilities
- Over FIRETEX hydrocarbon systems

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Steel

**Surface Preparation\*:** SSPC-SP6/NACE 2

**System Tested\*:**

1 ct. Recoatable Epoxy Primer @ 4.0 mils (100 microns) dft

1 ct. SherThane 2K Urethane @ 3.0 mils (75 microns) dft

\*unless otherwise noted below

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	108 mg loss
<b>Accelerated Weathering - QUV</b>	ASTM D4587, QUV-A, 3000 hours	Passes, >70% Gloss retention
<b>Adhesion</b>	ASTM D4541 - Patti	2364 psi
<b>Corrosion Weathering</b>	ASTM D5894, 45 cycles, 15,120 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
<b>Dry Heat Resistance</b>	ASTM D2485	200°F (93°C)
<b>Exterior Durability</b>	1 year at 45° South	Excellent
<b>Flexibility</b>	ASTM D522, 180° bend, 1/4" mandrel	Passes
<b>Moisture Condensation Resistance</b>	ASTM D4585, 100°F (38°C), 2000 hours	No blisters, rust, delamination, or rust creepage at scribe
<b>Pencil Hardness</b>	ASTM D3363	B
<b>Salt Fog Resistance</b>	ASTM B117, 2000 hours	Rating 8 per ASTM D714 for blistering; Rating 10 per ASTM D610 for rusting
<b>Thermocycling</b>	15 cycles (1 cycle = 4 hours fresh water immersion, 16 hours freezing, and 4 hours @ 120°F / 49°C)	Excellent, 100% adhesion, no film failure

Meets the requirements of SSPC Paint No. 36, Levels 2 & 3.



# Protective & Marine Coatings

# SHERTHANE® 2K URETHANE

PART A  
PART B

B65-150 SERIES  
B65V150

GLOSS  
HARDENER

## PRODUCT INFORMATION

5.24

### RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
<b>Steel, universal primer:</b>		
1 ct. Kem Bond HS Primer	2.0-5.0	(50-125)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Steel, epoxy primer:</b>		
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Steel, epoxy mastic primer:</b>		
1 ct. Epoxy Mastic Aluminum II	6.0-8.0	(150-200)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Steel, inorganic zinc-rich primer:</b>		
1 ct. Zinc-Clad II Plus	3.0-5.0	(75-125)
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Galvanized Metal:</b>		
1 ct. Tile-Clad High Solids	2.5-4.0	(63-100)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Aluminum:</b>		
1 ct. DTM Wash Primer	0.7-1.3	(18-32)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)
<b>Concrete:</b>		
1 ct. Heavy Duty Block Filler	10.0-18.0	(250-450)
1-2 cts. SherThane 2K Urethane	2.0-4.0	(50-100)

To enhance SherThane 2K Urethane product performance and extend long term weathering characteristics, apply 1 coat of Diamond-Clad Clear Coat Urethane @ 1.0-2.0 mils (25-50 microns) dft.

#### FIRETEX ONLY:

#### Finish Coat for FIRETEX Hydrocarbon Systems:

1 ct. SherThane 2K Urethane\*

\*Consult FIRETEX PFP Specialist for recommended dft range

The systems listed above are representative of the product's use, other systems may be appropriate.

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

- \* Iron & Steel: SSPC-SP6/NACE 3, 2 mil (50 micron) profile
- \* Aluminum: SSPC-SP1
- \* Galvanizing: SSPC-SP1
- \* Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3

\* Primer required

Surface Preparation Standards				
Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS056900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 1	SP 6	4
Brush-Off Blast	Sa 1	Ca 1	SP 7	-
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

### TINTING

Tint with Maxitoner colorants only into Part A at 100% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

### APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 120°F (49°C) maximum (air, surface, and material)  
At least 5°F (2.8°C) above dew point  
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

Packaging:  
Part A: 1 gallon (3.78L) and 4 gallon (15.1L) kits  
Part B: 1 quart (0.94L) and 1 gallon (3.78L)

Weight: 11.55 ± 0.2 lb/gal ; 1.38 Kg/L  
mixed, may vary with color

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



# Protective & Marine Coatings

# SHERTHANE® 2K URETHANE

PART A  
PART B

B65-150 SERIES  
B65V150

GLOSS  
HARDENER

Revised 10/12

## APPLICATION BULLETIN

5.24

### SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

#### Iron & Steel

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

#### Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required

#### Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. Primer required.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

#### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.  
ICRI No. 310.2 Concrete Surface Preparation.

### APPLICATION CONDITIONS

Temperature: 40°F (4.5°C) minimum, 120°F (49°C) maximum  
(air, surface, and material)  
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

### APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up: Xylene, R2K4

#### Airless Spray

Pressure.....2400 psi  
Hose.....3/8" ID  
Tip......015" - .017"  
Filter.....80 mesh  
Reduction.....As needed up to 5% by volume

#### Conventional Spray

Gun.....Binks 95  
Fluid Nozzle.....63 B  
Atomization Pressure.....50 - 70 psi  
Fluid Pressure.....20 - 25 psi  
Reduction.....As needed up to 5% by volume

#### Brush

Brush.....Natural Bristle  
Reduction.....As needed up to 10% by volume

#### Roller

Cover.....3/8" woven with solvent resistant core  
Reduction.....As needed up to 10% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1	Swedish Std.	SSPC	NACE
White Metal	BS7079:A1	SIS055900	SP 5	1
Near White Metal	Sa 3	Sa 3	SP 10	2
Commercial Blast	Sa 2.5	Sa 2.5	SP 6	3
Brush-Off Blast	Sa 2	Sa 2	SP 7	4
Hand Tool Cleaning	Sa 1	Sa 1	SP 2	-
Rusted	CS 2	CS 2	SP 2	-
Pitted & Rusted	CS 3	CS 3	SP 2	-
Rusted	CS 2	CS 2	SP 3	-
Power Tool Cleaning	CS 3	CS 3	SP 3	-
Pitted & Rusted	CS 3	CS 3	SP 3	-



# Protective & Marine Coatings

# SHERTHANE® 2K URETHANE

PART A  
PART B

B65-150 SERIES  
B65V150

GLOSS  
HARDENER

## APPLICATION BULLETIN

5.24

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agitation for 5 minutes.

If reducer solvent is used, add only after both components have been thoroughly mixed.

Apply paint at the recommended film thickness and spreading rate as indicated below:

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	3.0 (75)	6.0 (150)
Dry mils (microns)	2.0 (50)	4.0 (100)
~Coverage sq ft/gal (m <sup>2</sup> /L)	256 (6.3)	512 (12.5)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1024 (25.0)	

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 4.0 mils wet (100 microns):

	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
To touch:	5 hours	1 hour	30 minutes
To handle:	16 hours	4 hours	2 hours
To recoat:			
minimum:	16 hours	4 hours	2 hours
maximum:	3 months	3 months	3 months
To cure:	14 days	7 days	7 days
Pot Life:	12 hours	6 hours	2 hours
Sweat-in-Time:	None required		

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

### CLEAN UP INSTRUCTIONS

Clean spills and splatters immediately with Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene, R2K4.

Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.

Refer to Product Information sheet for additional performance characteristics and properties.

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

# MATERIAL SAFETY DATA SHEET

B65W151  
15 00

DATE OF PREPARATION  
Jul 24, 2014

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B65W151

**PRODUCT NAME**

SHERTHANE® 2K Urethane (Part A), Extra White/Tint Base

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	(800) 524-5979 www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<small>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</small>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	100-41-4	<b>Ethylbenzene</b>		7.1 mm
		ACGIH TLV	20 PPM	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
6	1330-20-7	<b>Xylene</b>		5.9 mm
		ACGIH TLV	100 PPM	
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	108-10-1	<b>Methyl Isobutyl Ketone</b>		16 mm
		ACGIH TLV	50 PPM	
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
1	110-43-0	<b>Methyl n-Amyl Ketone</b>		3.855 mm
		ACGIH TLV	50 PPM	
		OSHA PEL	100 PPM	
7	123-86-4	<b>n-Butyl Acetate</b>		10 mm
		ACGIH TLV	150 PPM	
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
16	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**HMIS Codes**

<b>Health</b>	2*
<b>Flammability</b>	3
<b>Reactivity</b>	0

**EFFECTS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Prolonged or repeated exposure may cause irritation.**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the hematopoietic (blood-forming) system
- the reproductive system

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES****EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.**INGESTION:** Do not induce vomiting. Get medical attention immediately.**SECTION 5 — FIRE FIGHTING MEASURES****FLASH POINT**

95 °F PMCC

**LEL**

1.0

**UEL**

7.9

**FLAMMABILITY CLASSIFICATION**

RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

**NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, **READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	11.91 lb/gal	1427 g/l
SPECIFIC GRAVITY	1.43	
BOILING POINT	237 - 308 °F	113 - 153 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	29%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
2.07 lb/gal	248 g/l	Less Water and Federally Exempt Solvents
2.07 lb/gal	248 g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable**

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

### CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
108-10-1	Methyl Isobutyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg
110-43-0	Methyl n-Amyl Ketone	LC50 RAT	4HR	Not Available
		LD50 RAT		1670 mg/kg
123-86-4	n-Butyl Acetate	LC50 RAT	4HR	2000 ppm
		LD50 RAT		13100 mg/kg
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**

5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY. (PAINT OR RELATED).

Larger Containers are Regulated as:

UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.

UN1263, PAINT, CLASS 3, PG III, (35 C c.c.), EmS F-E, S-E

**IATA/ICAO**

UN1263, PAINT, 3, PG III

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	6	
108-10-1	Methyl Isobutyl Ketone	2	

B65W151

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

# MATERIAL SAFETY DATA SHEET

B58W610  
24 00

DATE OF PREPARATION  
Aug 23, 2014

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**

B58W610

**PRODUCT NAME**

MACROPOXY® 646 Fast Cure Epoxy Coating (Part A), Mill White

**MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

**Telephone Numbers and Websites**

<b>Product Information</b>	(800) 524-5979 www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
<i>*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)</i>	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	100-41-4	<b>Ethylbenzene</b>		
		ACGIH TLV	20 PPM	7.1 mm
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
15	1330-20-7	<b>Xylene</b>		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
10	68410-23-1	<b>Polyamide</b>		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
9	14807-96-6	<b>Talc</b>		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
31	13463-67-7	<b>Titanium Dioxide</b>		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Causes burns.  
**SKIN:** Causes burns.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.  
Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the reproductive system

**HMIS Codes**

<b>Health</b>	3*
<b>Flammability</b>	3
<b>Reactivity</b>	0

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

May cause allergic skin reaction in susceptible persons or skin sensitization.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

**SECTION 4 — FIRST AID MEASURES**

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.

**SKIN:** Wash affected area thoroughly with soap and water.

If irritation persists or occurs later, get medical attention.

Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

**SECTION 5 — FIRE FIGHTING MEASURES**

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
84 °F PMCC	1.0	7.0	RED LABEL -- Flammable, Flash below 100 °F (38 °C)

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE****STORAGE CATEGORY**

DOL Storage Class IC

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Do not get in eyes or on skin. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

**EYE PROTECTION**

To prevent eye contact, wear safety spectacles with unperforated sideshields.

**OTHER PROTECTIVE EQUIPMENT**

Use barrier cream on exposed skin.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	12.19 lb/gal	1460 g/l
<b>SPECIFIC GRAVITY</b>	1.47	
<b>BOILING POINT</b>	277 - 292 °F	136 - 144 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	29%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	Not Available	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
2.11 lb/gal	253 g/l	Less Water and Federally Exempt Solvents
2.11 lb/gal	253 g/l	Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
100-41-4	Ethylbenzene	LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene	LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
68410-23-1	Polyamide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**  
 No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD**  
 Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**  
 5 Liters (1.3 Gallons) and Less may be Classed as LTD. QTY. (PAINT OR RELATED).  
 Larger Containers are Regulated as:  
 UN1263, PAINT, 3, PG III, (ERG#128)

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**  
 Ethylbenzene 1000 lb RQ  
 Xylenes (isomers and mixture) 100 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**  
 RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

**Canada (TDG)**  
 UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

**IMO**  
 5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.  
 UN1263, PAINT, CLASS 3, PG III, (29 C c.c.), EmS F-E, S-E

**IATA/ICAO**  
 UN1263, PAINT, 3, PG III

**SECTION 15 — REGULATORY INFORMATION**

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	15	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.