

STATEMENT OF WORK

FOR

**Embassy Compound Perimeter Wall
Stone Sealant Replacement Services**

At

US Embassy Helsinki

07-17-2013

Project 2013-011

1.0 INTRODUCTION

1.1 Overview:

The U.S. Embassy Helsinki has a requirement for a contractor to perform sealant replacement on both sides of the perimeter wall of Embassy compound. The work will consist of:

- Thoroughly clean all joints in horizontal and vertical stone installations on the perimeter wall. Remove all existing sealant regardless of condition.
- Remove and replace all expansion joint materials.
- Place new backer material and sealant in all joints per manufacturer's instruction. Sealant to be used is defined in attached material specification.
- Scope of work is shown in attached site plan.
- Contractor to arrange access to neighboring properties for completion of the work.
- Contractor shall be responsible for protection of landscaping and existing construction as needed. Any damage shall be repaired to Owners satisfaction as part of the work.

1.2 The project location is:

U.S. Embassy Helsinki
Itainen Puistotie 14
00140 Helsinki

1.3 The Contracting Officer Representative (COR) shall be:

Kato Smith, Facility Manager
Phone 358 9 6162 5647
Cell 358 40 674 4062
Email SmithKD@State.gov

1.4 All inspections will be requested through the COR.

2.0 GENERAL REQUIREMENTS

2.1 The Contractor shall provide a quantity of construction personnel, equipment, materials, tools and supervision as needed to complete the services and technical requirements in the Statement of Work (SOW). It is expected that the Contractor shall partner closely with Embassy personnel.

2.2 The Contractor shall designate and make available a representative to meet with the Contracting Officer's Representative (COR) weekly to discuss the Progress of the Project or other matters pertaining to the Project. The contractor shall follow up all telephone conversations affecting the scope of work with an email summary of the conversation sent to the COR.

2.3 All work shall be executed in a diligent manner in accordance with a negotiated firm fixed price and performance period.

2.4 Contractor shall perform work during normal Embassy work hours, which are Monday through Friday from 08:30 to 17:00.

3.0 CONTRACT ADMINISTRATION

3.1 The Contractor shall NOT conduct any work that is beyond this Statement of Work unless directed in writing by the CO. Any work done by the Contractor beyond this SOW without direction from the Contracting Officer (CO) will be at the Contractor's own risk and at no cost to the U.S. Government.

3.2 Neither payment, or approval, nor acceptance of Contractor's services under this contract by the Embassy shall be construed to operate as a waiver of any rights under this contract or any cause of action against the Contractor arising out of the performance of this contract.

3.3 The Embassy has the right to inspect and test all services called for by the contract, to the extent practicable, at all times and places during the term of the contract.

3.4 The COR, on behalf of the CO, has the authority to issue a temporary stop order during the execution of any particular phase of this SOW. This authority may be executed when the Embassy requires time for official functions or is in possession of specific credible information indicating that the lives of Embassy personnel are immediately threatened and that the execution of the project will increase the Embassy's vulnerability. The COR shall promptly notify the CO that work has been stopped. The Embassy may stop work on up to 10 occasions for full workdays during the project with 24 hours' notice to the Contractor. The Embassy shall fund work stoppage for mission critical operations beyond 10 days.

3.5 The CO has the right to terminate this contract for convenience at any Phase in whole, or from time to time, if the CO determines it is in the interest of the U.S. Government.

4.0 RESPONSIBILITY OF THE CONTRACTOR

4.1 The Contractor shall prepare and maintain a Project Schedule to address the cost and schedule for the project. The Project Schedule is intended to document the entire project from beginning to end.

4.2 Any cost associated with services subcontracted by the Contractor shall be borne by and be the complete responsibility of the Contractor under the fixed price of this contract.

4.3 The Contractor shall be and remain liable to the USG in accordance with applicable US law for all damages to the Embassy caused by the Contractor's negligent performance of any of the services furnished under this contract. The rights and remedies for the USG provided for under this contract are in addition to any other rights and remedies provided by US law.

- 4.4 The Contractor's senior representative shall be responsible for briefing COR on the status of the Work. The Contractor shall have all the means to communicate with on-site personnel using state-of-the-art technologies for the industry including, but not limited to, electronic mail, World Wide Web, digitizing equipment, wireless phone or other means.
- 4.5 The Contractor shall ensure that the overall program is executed smoothly, delivered on schedule, and within the project budget. The Contractor shall coordinate the efforts of all sub-contractors to ensure successful completion of this program within schedule and cost.
- 4.6 All unclassified drawings and unclassified documents must be returned to the COR at completion of the task order. In addition, all documentation produced for this project shall become the property of the USG at the completion of the project.
- 4.7 The Contractor is responsible for safety and shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. The Contractor shall promptly report all accidents resulting in lost time, disabling, or fatal injuries to the COR

5.0 CONSTRUCTION SERVICES

- 5.1 The Contractor shall survey the area where construction will take place and become thoroughly familiarized with the existing conditions and conditions that will affect the construction. The Contractor shall be responsible for all permit requirements, licensing requirements, and the quality and availability of materials, sub-contractors, and equipment that may be needed to execute the contract.
- 5.2 The Contractor shall inspect and evaluate all available drawings and specifications pertaining to the project. The Contractor shall field verify all dimensions for construction relevant to the project.
- 5.3 All materials and equipment incorporated into the project shall be brand new. The Contractor shall transport and safeguard all materials and equipment required for construction as instructed by the manufacturer's instructions. Materials and equipment needed for a complete installation shall be the responsibility of the Contractor.
- 5.4 The Contractor shall at all times keep the work area free from accumulation of waste materials. Upon completing construction, the Contractor shall remove all temporary facilities and leave the project site in a clean and orderly condition acceptable to Post. Any repair of damage caused as a result of this project will be the responsibility of the Contractor.
- 5.5 The Contractor shall maintain continuous usage of existing systems during construction.
- 5.6 Deliverables to Accompany Completion of Construction: The Contractor shall provide one copy of the following to the COR:
- A. Maintenance Instructions. Provide two copies to Embassy only.

- B. Manufacturers' Equipment Warranties and Identification of Warranty Items
- C. Two-year workmanship guarantee in writing covering all equipment, materials and labor in the event any workmanship or equipment items are found defective

6.0 PROJECT SCHEDULE

6.1 The Contractor shall commence work under this contract promptly upon Notice to Proceed, execute the work diligently, and achieve final completion and acceptance of the project, including final cleanup of the premises, within the contract period specified.

6.2 Milestones:

- Pre-Bid Meeting at site July 23, 2013 at 10:00
- Bid Due Date July 29, 2013 before 13:00
- Notification of Award of Contract July 30, 2013
- Security Access Information August 7, 2013 by 16:00
- Construction Period August 12, 2013 to September 30, 2013
- Completion of Project No later than September 30, 2013

6.3 Bids must be submitted in English and are due July 29, 2013 no later than 13:00. All bids to be submitted by email to SoderlinVA@state.gov.

7.0 SECURITY CLEARANCES

7.1 All people on site are required to have a security clearance from the Regional Security Officer (RSO) prior to being allowed on site. Because of this requirement, the work to be performed under this contract requires that the Contractor, its employees and sub-contractors submit corporate, financial and personnel information for review by the Embassy. Information submitted by the Contractor will not be disclosed beyond the Embassy.

7.2 The contractor shall submit this information including vehicle requirements within 10 days of the Award of Contract.

8.0 PAYMENTS

8.1 The Contractor shall provide a fixed fee, lump sum proposal to the CO for the work.

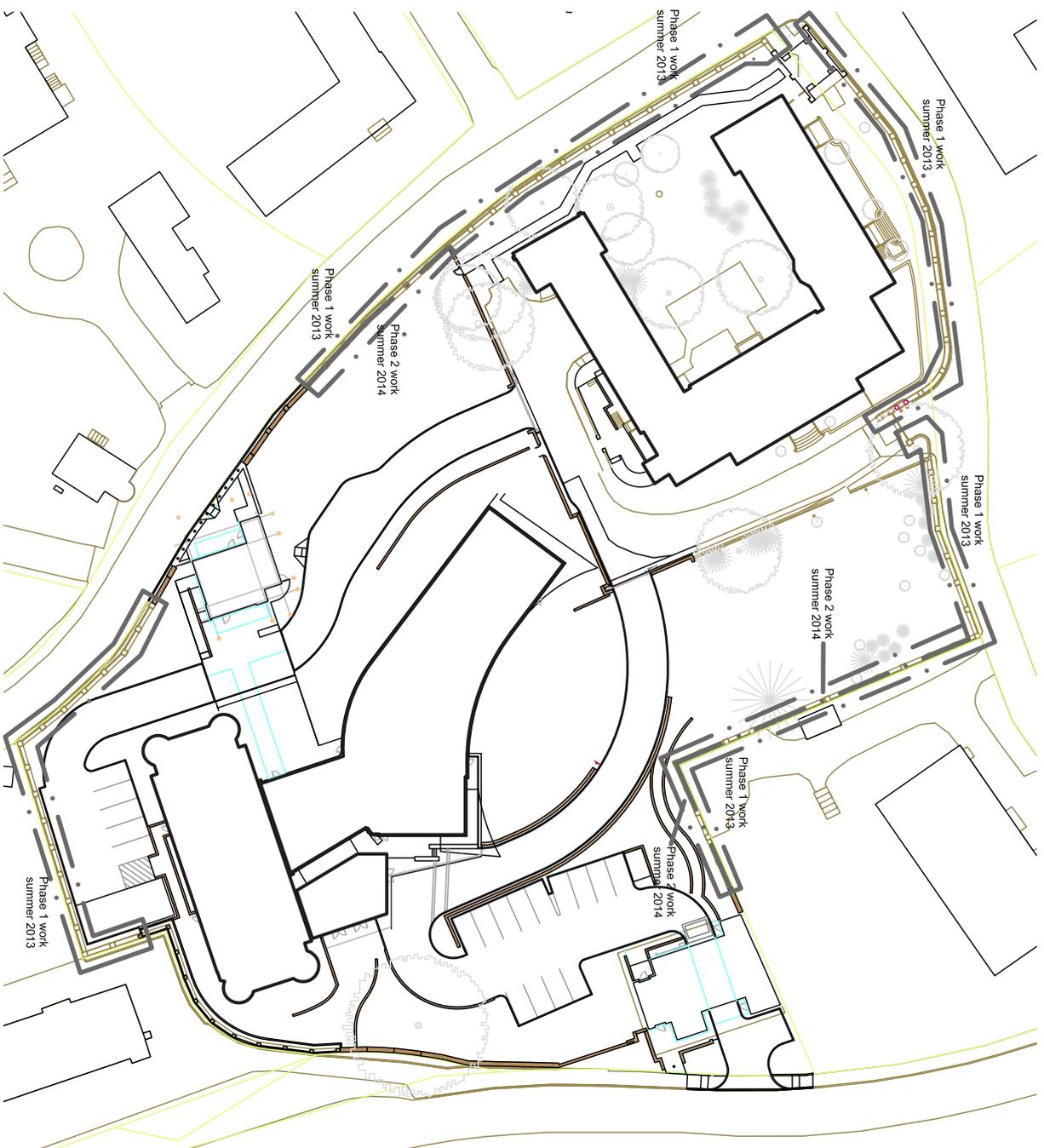
8.2 The Contractor shall submit monthly invoices, with the appropriate backup documents to the COR. The COR will determine if the invoice is complete and proper as submitted. The COR also will determine if billed services have been satisfactorily performed and if expenses billed are correct. If it is determined that the amount billed is incorrect, the COR will within seven days, request the Contractor to submit a revised invoice.

- 8.3 Payment terms are 30 days.
- 8.4 The Contractor shall specifically identify his last invoice "Final Invoice". The Final invoice shall include the remaining payment claimed to be due under the basic contract and all modifications issued, if any. The final invoice shall also include the Contractor's Release of Claims Certificate and a one-year Workmanship Guarantee attached.

9.0 SAFETY REQUIREMENTS

- 9.1 The Contractor shall adhere to all applicable safety standards.

END OF STATEMENT OF WORK



US Embassy Helsinki

Phase One Perimeter Wall Stone Sealant Project

June 2013

Pecora 890FTS and Pecora 890FTS-TXTR

Specification Data Sheet



Field Tintable, Non-Staining Silicone Sealant - Smooth and Textured Formulas

1. BASIC USES

- For sealing expansion and control joints in precast concrete panels, architectural and natural stone, masonry, steel, metal curtain walls, sealing of door and window perimeters, Exterior Insulation Finish Systems (EIFS), fluoropolymer and powder coated aluminum, wood, vinyl and many plastics, generally without need for a primer.
- Where the versatility of field tinting through the use of our universal color packs as well as the option of smooth or a textured, grout-like formula is needed.
- New or remedial construction

strong adhesion to all base and top coats and because the ultra-low modulus formulation places minimal stress on the bond line.

Advantages: Pecora 890FTS and Pecora 890FTS-TXTR offer the following features:

- Ability to produce virtually any color in the field through the use of Pecora's universal color pack system and color matching services.
- The option of a smooth (890FTS) or a textured, grout-like appearance (890FTS-TXTR).
- Will not stain natural stone or other porous surfaces.
- Superior adhesion: Will bond tenaciously to most substrates without the need for priming.

- Excellent weatherability: Because of its 100% silicone composition, it is virtually unaffected by UV, precipitation, ozone, and temperature extremes.
- Resilient: Will remain flexible under extreme temperature swings (-60°F to 300°F).

PACKAGING

- 1.5 gallon (5.68 L) units

COLOR

- 890FTS and 890FTS-TXTR are available in 51 standard colors (see 890FTS/890FTS-TXTR color chart for details).
- Unlimited range of custom colors (certain restrictions may apply).

2. MANUFACTURER

Pecora Corporation 165 Wambold Road Harleysville, PA 19438

Phone: 215-723-6051

800-523-6688

Fax: 215-721-0286

Website: www.pecora.com

3. PRODUCT DESCRIPTION

Pecora 890FTS and Pecora 890FTS-TXTR are field tintable, neutral-curing silicones that will not stain natural stone such as marble and granite, and will react with atmospheric moisture to form a durable, flexible building sealant. 890FTS and 890FTS-TXTR both perform exceptionally well under dynamic conditions with 890FTS accommodating long-term movement of +100/-50% and 890FTS-TXTR accommodating long-term movement of +50/-50% in properly designed joints. Harsh weather conditions and extreme temperatures have very little effect on the performance of 890FTS and 890FTS-TXTR even after years of exposure. They are also particularly well suited for use in Exterior Insulation Finish Systems (EIFS) because of their proven

TABLE 1: TYPICAL UNCURED PROPERTIES
at 77°F (25°C), 50% R.H.

| Test Property | Value | Test Procedure |
|--------------------------|-------|----------------|
| Flow, Sag, Slump | Nil | ASTM C-639 |
| Tool/Work Time (minutes) | 15-20 | Pecora Corp. |
| Tack free time (hrs) | 1-2 | ASTM C-679 |
| Full cure (days) | 7-14 | Pecora Corp. |
| Full adhesion (days) | 7-14 | Pecora Corp. |
| VOC g/L | 98 | ASTM D-3960 |

TABLE 2: TYPICAL CURED PROPERTIES
After 7 days cure at 77°F (25°C), 50% R.H.

| Test Property | Value | Test Procedure |
|------------------------------------|-------------|----------------|
| Hardness (Shore A) | 15-18 | ASTM C-661 |
| Extension (%) | 1000 | ASTM D-412 |
| Modulus @ 100% ext. (psi) 30 | ASTM D-412 | |
| Tensile strength (psi) | 120 | ASTM D-412 |
| Tear strength (ppi) | 30 | ASTM D-624 |
| Peel strength (pli) | 25 | ASTM D-794 |
| Dynamic movement (%) - 890FTS | +100/-50 | ASTM C-719 |
| Dynamic movement (%) - 890FTS-TXTR | +50/-50 | ASTM C-719 |
| Ozone/UV resistance | excellent | ASTM C-793 |
| Staining of porous substrates | | ASTM C-1248 |
| Marble | no stain | |
| Granite | no stain | |
| Limestone | no stain | |
| Service temp. range (°F) | -60 to +300 | Pecora Corp. |
| VOC g/L | 98 | ASTM D-3960 |

NOTE: 890FTS-TXTR values may differ slightly from that of 890FTS.

Limitations: Pecora 890FTS and Pecora 890FTS-TXTR should not be used in the following applications:

- Sealing horizontal decks, patios, driveway or terrace joints where abrasion or physical abuse is encountered.
- Below grade, submerged joints or below the waterline in marine uses.
- In totally confined or air-free spaces since moisture is necessary for cure.
- In designs that will be painted after the sealant is applied. Apply sealant after painting is completed.
- In structural glazing applications.
- On surfaces with special protective or decorative coatings without prior consultation with Technical Services.
- With building materials that bleed oils, plasticizers or solvents, i.e., impregnated wood, caulks, some vulcanized rubber gaskets or tapes, etc.
- In interior penetration firestop systems.
- On surfaces in direct contact with food, use of Pecora 860 silicone with FDA approval is recommended.

4. TECHNICAL DATA

Applicable Standards: Pecora

890FTS: meets or exceeds the requirements of the following industry specifications: TT-S-230C, Class A; ASTM C920, Class 100, Type S, Grade NS, Use G, A, M, O, and CGSB-19GP-9, CAN/CGSB-19.13-M87.

Applicable Standards: Pecora

890FTS-TXTR: meets or exceeds the requirements of the following industry specifications: TT-S-230C, Class A; ASTM C920, Class 50, Type S, Grade NS, Use G, A, M, O, and CGSB-19GP-9

Joint Design: Pecora 890FTS and Pecora 890FTS-TXTR Silicone sealant should be no deeper than 3/8" (9 mm) and no less than 1/8" (3 mm). Ideally, ratio of joint width to the sealant depth is 2:1. Joint width should not exceed 1". For joints greater than 1", consult Technical Services. If Pecora 890FTS and Pecora 890FTS-TXTR cannot be installed

when the design width is approximately halfway between the dimensional extremes, the designed joint must be at least twice the total anticipated joint movement. Good architectural practice calls for joint design of four times the anticipated movement due to construction tolerances and material variations.

5. INSTALLATION

Surface Preparation: Clean all joints and glazing areas by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants or glazing compounds and any protective coating. Porous substrates and precast concrete panels using form release agents should be cleaned by grinding, saw cutting, blast cleaning (water or sand), mechanical abrading or a combination of these methods which will provide a sound, clean and dry surface for sealant application. Dust, loose particles, etc. should be blown out of joints with oil-free compressed air or vacuum cleaned. Metal, glass and plastic surfaces should be cleaned with solvent procedure or by mechanical means. Soap or detergent and water cleaning treatments are not recommended. Cleaning of all surfaces should be done on the same day the sealant is applied.

Mixing:

- Remove plastic film. In the event skinning developed during storage, remove and discard prior to mixing.
- Pour contents of Pecora universal color pack into pail using a spatula to scrape as much color tint from container as possible.
- For best overall appearance, use the Albion® 381-G01 4 inch mixing paddle or Pecora #2 mixing paddle (or other comparable mixing paddle). Do not over mix.
- Mix for about 1 minute, moving drill throughout material while avoiding contact with pail.
- Scrape any unmixed material from sides and bottom of can with flat-edge spatula or margin trowel.

- Continue mixing for 1-2 minutes or until a uniform color is achieved. Do not exceed 4 minutes total mixing time.
- Use clean bulk caulking gun for sealant application.
- Dry tooling is recommended. If a slicking agent is required, use mineral spirits. Wet tooling may reduce the textured appearance of 890FTS-TXTR.

Cleaning: Excess sealant should be removed from all surfaces while still uncured. Cured sealant is very difficult, if not impossible, to remove without altering or damaging the surface it is adhered to.

CAUTION: Solvents may be toxic and/or flammable. Refer to solvent manufacturer's instructions or Material Safety Data Sheets.

Priming: Pecora 890FTS and Pecora 890FTS-TXTR do not require priming on most common substrates. However, Pecora strongly suggests adhesion pre-testing, either in the field or in Pecora's laboratory, on all porous substrates, particularly brick, as well as unusual building materials and other substrates where special coatings or surface treatments may impair optimum adhesion. Where primer is indicated, P-150 should be used on porous substrates and P-120 on special metal and plastic surfaces. All precast substrates require priming with P-225 primer. All EIFS substrates require priming with P-150 primer. Contact Technical Services for primer use on other substrates.

Pecora routinely conducts project specific adhesion, compatibility, and staining tests in its laboratory on representative substrate samples. Consult Technical Services for details.

Joint Backing: Backer rod controls the depth of the sealant and allows it to be applied under pressure. Use a size that will compress 25%. Denver Foam® open-cell polyurethane or reticulated (soft) polyethylene rod is recommended. Closed-cell polyethylene may be used but care must be taken not to puncture the rod which can cause outgassing

or bubbling/blistering in the sealant. Open-cell polyurethane is required with non-porous substrates to allow proper curing from both sides of the sealant. In joints too shallow for backer rod, use a polyethylene bond-breaker tape to prevent three-sided adhesion. For detailed information on the use of sealant backing materials, consult Pecora Technical Bulletin #105.

Application: All joints should be masked to ensure a neat appearance and prevent sealant applied outside the joint confines from discoloring the substrate.

Storage: 12 months from date of manufacture when stored in original, airtight containers at temperatures below 90°F (32°C).

Precautions: Use in well ventilated area or wear an appropriate NIOSH-approved respirator. Contact with uncured sealant or with vapors generated during curing **MAY CAUSE RESPIRATORY TRACT IRRITATION**. Avoid breathing vapor, mist, or dust. Keep container closed when not in use. **MAY CAUSE SKIN AND EYE IRRITATION OR ALLERGIC REACTION**. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. **HARMFUL IF SWALLOWED**. Do not taste or swallow.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH OF
CHILDREN.**

6. AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

7. WARRANTY

Pecora Corporation warrants its products to be free of defects. Under this warranty, we will provide, at no charge, replacement materials for, or refund the purchase price of, any product proven to be defective when used in strict accordance with our published recommendations and in applications considered by us as suitable for this product. The determination of eligibility for this warranty, or the choice of remedy available under this warranty, shall be made in our sole discretion and any decisions made by Pecora Corporation shall be final. This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose and in no case will Pecora be liable for damages other than those expressly stated in this warranty, including but not limited to incidental or consequential damages.

8. MAINTENANCE

If the sealant is damaged and the bond is intact, cut out the damaged area and re-caulk. No primer is necessary. If the bond has been affected, remove the sealant, clean and repair joint in accordance with instructions under "installation".

9. TECHNICAL SERVICES

Local Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions, or to conduct job-site inspections. For further information and assistance, please call our Technical Service department at 215-723-6051 or 800-523-6688.

10. FILING SYSTEMS

- General Building
 - 07100 Waterproofing
 - 07920 Sealants
- Civil Engineering
 - 07100 Waterproofing



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