



City of San Antonio

TRANSPORTATION AND CAPITAL IMPROVEMENTS

ADDENDUM No. 3

FORMAL INVITATION FOR BIDS (IFB)

PROJECT NAME: Alamo Plaza Visitor Information Center Office Renovation ID No.:43-00001

DATE: January 13, 2015

This addendum is separated into sections for convenience; however, all contractors, subcontractors, material men, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their proposal package.

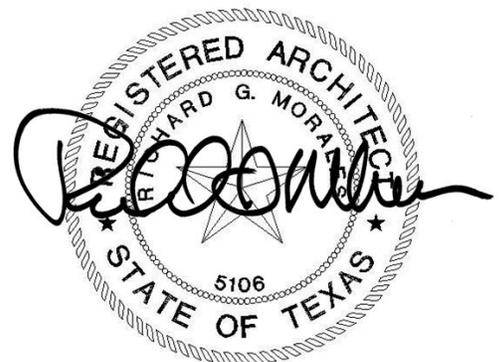
GENERAL:

1. The following changes and/or additions to the Contract Documents, via this addendum, shall apply to proposals made for and to the execution of the various parts of the work affected thereby.
2. Careful note of the Addendum shall be taken by all interested parties and all trades affected shall be fully advised in their performance of the work involved.

GENERAL COMMENTS:

ITEM 1 **ADD** Specification Section 035300 Concrete Topping. Refer to EXHIBIT 'A'.

END OF ADDENDUM No. 3



01/13/15

SECTION 035300 – CONCRETE TOPPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings, general provisions of the Contract, and other related construction documents such as Division 01 specifications apply to this Section

1.2 SUMMARY

- A. This Section includes a cement-based self-drying, self-leveling topping for fast track resurfacing, smoothing or leveling of indoor concrete and certain nonporous surfaces.
 - 1. ARDEX SD-T[®] Self-Drying, Self-Leveling Concrete Topping
 - 2. ARDEX EP 2000[™] Substrate Preparation Epoxy Primer

1.3 REFERENCES

- A. ASTM C 109M, Compressive Strength Air-Cure Only
- B. ASTM C348, Flexural Strength of Hydraulic-Cement Mortars
- C. ASTM F2170, Relative Humidity in Concrete Floor Slabs Using in situ Probes
- D. ASTM F1869, Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
- E. ASTM 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Material Safety Data Sheets.
- B. Qualification Data: For Installer

1.5 QUALITY ASSURANCE

- A. Installation of the ARDEX product must be completed by a factory-trained applicator, such as an ARDEX LevelMaster[®] Elite or Choice Contractor, using mixing equipment and tools approved by the manufacturer. Contact ARDEX Engineered Cements (724) 203-5000 for a list of recommended installers.

- B. Product must have a hydraulic cement-based inorganic binder as the primary cement binder to include Portland cement per ASTM C150: Standard Specification for Portland Cement and other specialty hydraulic cements. Gypsum-based products are not acceptable.
- C. Manufacturer Experience: Provide products of this section by companies which have successfully specialized in production of this type of work for not less than 10 years. Contact Manufacturer Representative prior to installation.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, batch number and shelf life.
- B. Store products in a dry area with temperature maintained between 50° and 85° F (10° and 29° C) and Protect from direct sunlight.
- C. Handle products in accordance with manufacturer's printed recommendations.

1.7 PROJECT CONDITIONS

- A. Do not install material below 50° F (10° C) surface and air temperatures. These temperatures must also be maintained during and for 48 hours after the installation of products included in this section. Install quickly if substrate is warm and follow warm weather instructions available from the ARDEX Technical Service Department.

PART 2 - PRODUCTS

2.1 CEMENT TOPPING

- A. Cement-based Self-Leveling, Self-Drying Topping

- 1. Acceptable Products (Basis of Design):

- a. ARDEX SD-T[®] or approved equal; Manufactured by ARDEX Engineered Cements: 400 Ardex Park Drive, Aliquippa, Pa 15001 USA, (724) 203-5000, www.ardex.com

- i. Primer: ARDEX EP 2000[™] SUBSTRATE PREPARTION EPOXY.

- 2. Performance and Physical Properties: Meet or exceed the following values for material cured at 70° F+/-3°F (21° C+/-3°C) and 50% +/-5% relative humidity:

- a. Application: Barrel Mix or Pump
 - b. Flow Time: 10 minutes
 - c. Initial Set: Approx. 10 minutes
 - d. Final Set: Approx. 45 minutes

- e. Compressive Strength: 6100 psi at 28 days, ASTM C109M.
- f. Flexural Strength: 1200 psi at 28 days, ASTM C348.
- g. Colors: White & Grey

2.2 WATER: Water shall be clean, potable, and sufficiently cool (not warmer than 70°F).

PART 3 – EXECUTION

3.1 PREPARATION

A. Concrete Subfloors: Prepare substrate in accordance with manufacturer's instructions.

1. All concrete subfloors must be sound, solid, clean, and free of all oil, grease, dirt, curing compounds and any substance that might act as a bond breaker before priming. Acid etching and the use of sweeping compounds and solvents are not acceptable.
2. All cracks in the subfloor shall be repaired with ARDEX ARDIFIX™ Low Viscosity Rigid Polyurethane Crack & Joint Repair to minimize telegraphing through the topping.
3. Substrates shall be inspected in accordance with ASTM F1869 or ASTM F2170 and corrected for moisture or any other conditions that could affect the performance of the topping or sealer. ARDEX SD-T® is intended for use over dry substrates only. Do not use in areas of constant water exposure, or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the topping and coating. This product is not a vapor barrier and will allow free passage of moisture.

B. Joint Preparation:

1. Moving Joints –under no circumstances should ARDEX SD-T® be installed over any moving joints or cracks. Joints may be filled with ARDEX ARDISEAL™ Rapid Plus Semi-Rigid Joint Sealant.
2. Saw Cuts and Control Joints – must be honored up through the topping. Failure to do so may result in cracking and/or disbonding of the topping. Joints may be filled with ARDEX ARDISEAL™ Rapid Plus Semi-Rigid Joint Sealant.

3.2 APPLICATION OF ARDEX SD-T®:

A. Examine substrates and conditions under which materials will be installed. Do not proceed with installation until unsatisfactory conditions are corrected.

B. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas from contact due to mixing and handling of materials.

C. Priming:

1. Install ARDEX EP 2000™ SUBSTRATE PREPARTION EPOXY. Apply the freshly mixed epoxy to the prepared surface using a short-nap paint roller for smoother surfaces and a longer nap for more uneven substrates. ARDEX EP 2000™ can also be applied with a paintbrush for hard-to get-to areas and in corners.

- a. While in a fresh state, broadcast an excess of fine sand (“play sand” that is less than 1/32 of an inch in grain size) consistently over the entire area. Figure about 2/3lb. of sand per square foot of the area. Avoid all traffic over the surface for a minimum of 6 hours.
 - b. After 16 hours, broom sweep and vacuum the surface to remove all loose sand.
- D. Mixing: Comply with manufacturer's printed instructions and the following.
1. Add 5 quarts (4.75 L) of clean potable water per two 50-pound bag.
 2. Mix using a ½” (650 rpm) low speed heavy-duty mixing drill with an ARDEX T-1 mixing paddle. Do not overwater.
 3. Aggregate mix: For areas to be installed over 2” thick, aggregate may be added to reduce material costs. Mix ARDEX SD-T[®] with water first, then add 1 part aggregate by volume of washed, well graded pea gravel aggregate (1/8" to 1/4" or larger). Do not use sand. Note: The addition of aggregate will diminish the workability of the make it necessary to install a finish coat to obtain a smooth surface. Ardex recommends a finish coat to obtain a smooth surface. Allow the initial application to dry for 12 to 16 hours. For ARDEX DESIGNER FLOOR applications, the aggregate course must be primed with ARDEX EP 2000. Note: For ARDEX DESINGER FLOOR installations requiring an aggregate course over standard absorbent concrete, only the finish layer requires the use of ARDEX EP 2000.
- E. Application: Comply with manufacturer's printed instructions and the following.
1. ARDEX SD-T[®] may be installed at a minimum thickness of 1/4”. ARDEX SD-T[®] can be installed up to 2” over large areas neat, and up to 5” with the addition of proper aggregate. ARDEX SD-T[®] can also be tapered to match existing elevations.
 2. Pour the liquid ARDEX SD-T[®] and spread in place with the ARDEX T-4 Spreader. Use the ARDEX T-5 Smoother and featheredge and touch-up. Wear non- metallic cleats to avoid leaving marks in the liquid ARDEX SD-T[®].
- F. Curing
1. ARDEX SD-T[®] can be walked on in 2-3 hours. Dry time prior to sealer application varies by sealer type and thickness of application. Follow ARDEX recommendation for dry time prior to the installation of the sealer.

3.4 FIELD QUALITY CONTROL

- A. Where specified, field sampling of the Ardex topping is to be done by taking an entire unopened bag of the product being installed to an independent testing facility to perform compressive strength testing in accordance with ASTM C 109/modified: air-cure only. There are no in situ test procedures for the evaluation of compressive strength.

3.5 PROTECTION

- A. ARDEX SD-T[®] wear surfaces should be adequately protected from damage resulting from

construction traffic or other use that can affect the finish floor.

- B. ARDEX SD-T[®] wear surfaces are intended for foot traffic, moderate, rubber-wheeled forklift traffic and similar uses. Excessive service conditions, such as steel or hard plastic-wheeled traffic, or dragging heavy metal equipment or loaded pallets with protruding nails over the floor, will cause gouging and indentations. ARDEX SD-T[®] is not a resurfacing topping for heavy-duty manufacturing or industrial floors, or for chemical environments requiring customized industrial toppings.

3.6 MAINTENANCE

- A. Once installed, any finished floor surface requires routine cleaning and maintenance. The best way to ensure the long-term appearance of a newly installed floor is by the use of a sacrificial floor finish (“wax” or “polish”) applied over the surface of the newly installed floor. All floor coatings will wear as a function of traffic and maintenance, and the use of a sacrificial coating avoids wear while providing a simple maintenance solution.

END OF SECTION

**CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS
CONTRACT SERVICES DIVISION**

RECEIPT OF ADDENDUM NUMBER(S) 3 IS HEREBY ACKNOWLEDGED FOR PLANS AND SPECIFICATIONS FOR **Alamo Plaza Visitor Information Center Office Renovation Project**

No.:**43-00001** FOR WHICH BIDS WILL BE OPENED ON **January 20, 2015.**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title