

SECTION 07575
VEHICULAR TRAFFIC BEARING WATERPROOF SURFACING
Dex-O-Tex Auto-Dex V

PART 1.00 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.02 WORK INCLUDED

- A. Work of this Section includes all labor, materials, equipment and services necessary to complete the neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system as scheduled on the drawings and/or specified herein.

1.03 RELATED WORK

- A. Concrete - Section 03300.
(Note to Specifier: Concrete slab should be either water cured or cured using sodium silicate curing compounds only. Other types of curing compounds are generally not acceptable. Concrete should be cured for a minimum of 28 days with a maximum moisture content of 7%. Light-weight concrete topping slabs should not contain light weight aggregates such as gypsum or vermiculite. Structural concrete and concrete topping shall include expansion joints and expansion joints shall be filled with Dex-O-Tex Elastatex 500 joint filling compound or approved equal. Minimum pitch of 1/8 inch per foot. Covering on grade floors slabs is generally not recommended with products which incorporate waterproof membranes; however, if doing so should have vapor retarder beneath slab, and lab should be properly vented. Consult Crossfield Products Corp.).
- B. Floor drains - Division 15
(Note to Specifier: Floor drains, clean-outs, etc. should be of the "floor-flange" type as manufactured for use with composition floors by most major drain manufacturers. Drain flange shall be finished flush with substrate.)
- C. Insulation, vapor barrier and protective waterproofing
(Consult Crossfield Products Corp. for specific recommendation)
- D. Sheet metal flashing
(Note to Specifier: Sheet metal flashing shall be minimum 26 gauge galvanized. All joints or seams in the sheet metal shall overlapped approx. 3" and caulked with Dex-O-Tex Elastatex 500 flashing paste or approved equal.)
- E. Plywood substrate including framing and blocking
(Consult Crossfield Products Corp. for specific recommendation)
- F. Slope for drainage
(Note to Specifier: Allow minimum 1/8 inch per foot slope to drain. This can be provided for in the substrate or by application of Dex-O-Tex A-81 Underlayment. Care must be taken to provide adequate elevation at thresholds to interior spaces to provide proper slope to drain.)

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.

- B. Product Data: Submit manufacturer's technical data, application instructions and general recommendations for the waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system specified herein.
- C. LEED Submittals:
 - 1. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, submit documentation indicating percentages by weight of postconsumer and preconsumer recycled content.
 - a. Include statement indicating costs for each product having recycled content.
 - b. Include LEED Product Information Form for LEED Credits MR 4.1 and 4.2.
 - 2. Product Data for Credit EQ 4.2: For field applied, interior, paints coatings and primers, include printed statement of VOC content indicating compliance with Credit requirements.
 - a. Include LEED Product Information Form for LEED Credit EQ 4.2.
 - 3. Provide additional documentation for products as required to achieve each Credit(s).
- D. Samples for initial selection purposes in form of manufacturer's recommended installation procedures for specific application parameters.
- E. Material certificates signed by manufacturer certifying that the waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system complies with requirements specified herein.
- F. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer or applicator who has specialized in installing vehicular traffic bearing waterproof surfacing system types similar to that required for this Project and who is acceptable to manufacturer of primary materials.
- B. Single-Source Responsibility: Obtain waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system materials, including primers, resins, hardening agents, and finish or sealing coats, from a single manufacturer.
- C. Pre-Qualified Materials: Submit any request for alternative products for review two weeks prior to bid date. Any request for alternate products received after this date will not be considered.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components.
- B. Comply with manufacturer's directions for materials storage to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects.

1.07 PROJECT CONDITIONS

- A. Environmental Conditions: Comply with waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system manufacturer's directions for maintenance of ambient and substrate temperature, moisture, humidity, ventilation, and other conditions required to execute and protect work.

PART 2.00 PRODUCTS

2.01 MATERIALS

- A. Troweled waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system shall be Dex-O-Tex Auto-Dex V as manufactured by Crossfield Products Corp., in Rancho Dominguez, California and Roselle Park, New Jersey.
- B. The trowel applied waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system shall be composed of a co-polymer bondcoat, neoprene waterproof membrane, and cementitious co-polymer traffic topping surfacing.
 - 1.) All resin binders and all rubber emulsions shall be compounded with neoprene or polyacrylate co-polymer liquids and shall have a minimum polymer, neoprene, solids content of 35% when tested by the dry cup method.
 - 2.) Aggregate for traffic surface coating shall be suitably graded, fine trap-rock passing a #20 mesh sieve and retained on a #40 mesh sieve.
 - 3.) Fabric used as reinforcement for waterproof membrane shall be 7-1/2 oz. Woven polypropylene fabric.

2.02 PROPERTIES

- A. Colors: As indicated, or if not otherwise indicated, as selected by Architect from manufacturer's standard colors.
- B. Physical Properties:
Provide a waterproof membrane system that meets or exceeds the listed minimum physical property requirements when tested according to the referenced standard test method in parentheses.

Thickness	Minimum 1/8"
Weight	1.5 lbs. psf.
Bond Shear Strength (ASTM C482).....	Dry 77 psi. Wet..... 62 psi.
Coefficient of Static Friction	Dry Rubber 1.03 Wet Rubber 0.99 Oily Rubber 1.09
Fire Resistance (MIL-PRF-23003)	Complies
Resistance to Oil (MIL-PRF-23003)	Complies
Bacteria and Fungus Resistance (ASTM G22)	No Growth/ no water penetration
Hydrostatic Pressure Resistance (ASTM D751).....	240 psi.
Ozone Resistance (ASTM D1149)	No cracking, orating or water penetration (72 hrs. @ 100ppm 90°F)
Dimensional Stability (ASTM D12040)	<0.5%
Elongation (ASTM D751)	1,1250% (membrane only unreinforced)
Chloride Ion Penetration (15% NaCl @ 21 days).....	None

PART 3.00 – EXECUTION

3.01 CONTRACTOR QUALIFICATIONS

- A. Vehicular traffic bearing waterproof surfacing system shall be installed in strict accordance with the manufacturer's recommendations by a contractor trained and approved by the materials manufacturer and have a minimum five years experience in the application of similar materials.

3.02 INSPECTION

- A. Examine the areas and conditions where the waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system is to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected by the Contractor in a manner acceptable to the Architect.
- B. Evaluate level of moisture in the substrate to determine that moisture levels are acceptable for application of specified waterproof deck covering system.

3.03 PREPARATION

- A. Shot-blast, acid etch or power scarify as required to obtain optimum bond of flooring to concrete. Remove sufficient material to provide a sound surface free of laitance, glaze, efflorescence, and any bond-inhibiting curing compounds or form release agents. Remove grease, oil, and other penetrating contaminants. Repair damaged and deteriorated concrete to acceptable condition. Leave surface free of dust, dirt, laitance, and efflorescence. Provide clean, dry and neutral substrate for application of vehicular traffic bearing waterproof surfacing system.
- B. Materials: Mix aqueous emulsions and aggregate when required as per manufacturer's instructions. Prepare materials according to waterproof membrane system manufacturer's instructions.

3.04 FIELD CONDITIONS

- A. Vehicular traffic bearing waterproof surfacing system shall not be applied during either freezing or inclement weather, or when such weather can logically be expected.

3.04.1 APPLICATION

- A. General: Apply each component of waterproof neoprene co-polymer composition vehicular traffic bearing waterproof surfacing system according to manufacturer's directions to produce a uniform, monolithic surface of thickness indicated.
- B. Apply latex co-polymer bonding coat over entire area.
- C. Apply reinforced membrane at all vertical junctures. Embed polypropylene fabric into neoprene membrane liquid. Treat all details and prepare for application of waterproof membrane.
- D. Apply aqueous neoprene rubber waterproof membrane solution with fabric reinforcement to entire area to be coated. Overlap all seams a minimum of 2 inches.
- E. Trowel apply two coats of polyacrylate co-polymer and fine aggregate composition to achieve a smooth, protective coat.
- F. Apply finish texture coat to desired finish profile. Apply additional texture coat to ramps and high use areas.

3.06 CURING, PROTECTION AND CLEANING

- A. Cure waterproof neoprene co-polymer composition traffic bearing roof waterproof surfacing materials according to manufacturer's directions, taking care to prevent contamination during application stages and before completing curing process. Close application area for a minimum of 24 hours.

END OF SECTION

DEX-O-TEX PRODUCT LINE
Crossfield Products Corp.
www.dexotex.com

3000 E. Harcourt Street
Rancho Dominguez, CA 90221
Tel: (310) 886-9100
Fax: (310) 886-9119

140 Valley Road
Roselle Park, NJ 07204
Tel: (908)-245-2800
Fax: (908)-245-2583