

CLASS 2 PROTECTIVE SURFACE TREATMENT FOR CONCRETE

<u>Product Brand</u>	<u>Manufacturer</u>
Baracade Silane 40	The Euclid Chemical Company 19218 Redwood Rd. Cleveland, Ohio 44110 (800) 321-7628
Conspec Silane 40	Conspec Marketing & Mfr. Co., Inc. 636 South 66th Terrace Kansas City, Kansas 66111
ESI-515	Freeport, Inc. P.O. Box 470028 Tulsa, Oklahoma 74147 (918) 622-8610
Hydrozo Silane 40 VOC	BASF Construction Chemicals, LLC (formerly DeGussa/ChemRex, Inc.) 889 Valley Park Drive Shakopee, Minnesota 55379
Sil-Act ATS 42 Sil-Act Multigard	Advanced Chemical Technologies Suite C-1 100 Wilshire Blvd. Oklahoma City, Oklahoma 73116 (405) 843-2585

METHOD OF DOCUMENTATION OF ACCEPTANCE: By brand and manufacturer and with documentation as listed below.

1. The sealer shall be delivered to the project in unopened containers with the manufacturer's label identifying the product. Each container shall be clearly marked by the manufacturer with the following information:

- Manufacturer's name and address.
- Product name.
- Date of manufacture and expiration date.
- Lot identification.
- Storage requirements.

The sealer shall be used as supplied unless otherwise specified by the manufacturer. If the manufacturer specifies dilution, the requirements for such dilution shall be shown on the label of each container.

2. The treatment of concrete surfaces shall be performed by personnel certified by the manufacturer of the penetrating water repellent solution as qualified applicators. Surface preparation shall be performed under the direct, on-site supervision of the certified applicator.

The manufacturer's written certification of the applicator shall be furnished to the Engineer before the surface preparation and actual application is begun. Before beginning the work, the Contractor shall submit to the Engineer documentation of the procedures to be used

The procedures shown in the documentation shall include, but are not limited to:

The identification of the product to be used by brand name and name of the manufacturer.

A copy of the manufacturer's unabridged application procedures.

A description of the manufacturer's recommended surface preparation methods and the equipment to be used.

Weather and surface moisture limitations.

Time between surface preparation and application.

Length of time traffic should be kept off the treated surface.

Re-treatment procedures.

The following procedure is to be used in acquiring approval of Class 2 Protective Surface Treatment For Concrete for inclusion on the Qualified Products List:

1. The manufacturer / supplier will provide the Materials Division of the Arkansas State Highway and Transportation Department with a copy of a test report from a recognized laboratory covering the material to be used. A recognized laboratory is any State Highway Agency, Federal Highway Administration or Independent Testing Laboratory.

2. The material shall be either alkyl-alkoxysilane or oligomeric alkyl-alkoxysilane. The solvent shall leave a residue of less than 1% by weight after evaporation.

The sealer shall not permanently stain, discolor, or darken the concrete. Application of the sealer shall not alter the surface texture or form a coating on the concrete surfaces. Treated concrete shall be surface dry within 30 minutes after application.

The sealer shall be tinted at the time of application with fugitive dye to enable the sealer to be visible on the treated concrete surface for at least four hours. The fugitive dye shall not be conspicuous for more than 7 days.

3. Manufacturer's product literature and MSDS for each submittal.
4. An approval will be predicated upon a test report showing conformance to the following specifications.

Test	Test Method	Duration	Max. Absorption
Water Immersion	ASTM C 642	48 hours	1 % by weight
Water Immersion	ASTM C 642	50 days	2 % by weight
Salt Water Ponding (Based on non-braded specimen)	AASHTO T 259	90 days	0.76 lbs / cu yd (0.44 kg/cu m) Depth: 1/2" to 1" (13 to 25mm)

5. If all of the above criteria are met, a letter and unsigned certification agreement will be sent to the manufacturer. The product will be placed on the QPL upon receipt of the signed agreement.

6. Destination samples will also be taken as deemed necessary to assure compliance with specifications. Failure of these samples may be considered sufficient cause to reject the material and suspend further use and /or removal form the QPL until tests by the Department determine that the product is in compliance with applicable specifications and requirements.

