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TECHNICAL BULLETIN

TOPSHIELD® 5600EF

Enviromentally Friendly, Hybrid Aliphatic Polyurea Topcoat

DESCRIPTION

Topshield® 5600EF is a two component, odor friendly, fast setting, rapid curing very high solids hybrid aliphatic polyurea elastomeric membrane. Topshield® 5600EF can be applied to properly prepared interior or exterior concrete, plywood and metal surfaces. It is suitable for single or multiple applications, in temperatures as low as 20°F and is insensitive to moisture.

FEATURES

- ❖Enviromentally Friendly
- ❖Non-Gassing
- ❖Seamless
- ❖Environmentally Safe
- ❖Good Chemical Resistance
- ❖Meets USDA Criteria

TYPICAL USES

- ❖Vehicular Decks
- ❖Pedestrian Decks
- ❖Mechanical Room Floors
- ❖Kennels

TECHNICAL DATA

Dry Film Thickness, exclusive of aggregate;	
Per Coat at 1 gal/100 sq. ft.	14.8 mils 375 micron
Pot Life at 75°F	30 ±10 minutes
Cure Time at 75°F	2-4 hours
Weight per Gallon;	
A-Component	9.10 lbs.
B-Component	8.01 lbs.
Percent Solids Content, ASTM D-2369;	
Solids by Weight	95%
Solids by Volume	92.8%
Hardness, ASTM D-2240	85 ± 5 Shore A
Tensile Strength, ASTM D-412	3200 ± 10% psi
Percent Elongation, ASTM D-412	450 ± 10%
Adhesive Peel Strength on Primed Concrete;	
ASTM D-903	40 pli
Moisture Vapor Transmission, ASTM E-96	1.54 perms
Water Absorption, ASTM D-471	1.3% by weight
Tear Resistance, ASTM D-624	300 ± 10% pli
Volatile Organic Compounds,	< 0.5 lb/gal
ASTM D-2369-81	< 60 gm/liter
U.V. Stability, Q Panel Weather-O-Meter	2000 hours
(No cracking or crazing; no physical damage)	

COLOR

Grey

Custom colors are also available. Minimum order of 500 gallons. See color chart for special provisions.

PACKAGING

4.4 gallon kit: One 5 gallon (net 4 gallons) pail of Side-A and one ½ gallon (net 0.4 gallon) jar of Side-B.

MIXING

Before application, pre-mix Side-A of Topshield® 5600EF using a mechanical mixer at slow speed. Add Side-B of Topshield® 5600EF and continue mixing until a homogeneous mixture and color is obtained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life.

APPLICATION

Apply Topshield® 5600EF evenly, over the entire deck using a 10:1 ratio machine or hand mixed material. Apply by notched squeegee or notched trowel over the entire deck.

Requires a continuous coating application to minimize lines and/or streaking.

To obtain proper adhesion between coats, it is imperative that re-coating be completed within 24 hours.

CURING

At 77°F (25°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours. If more than 24 hours passes between coats, re-prime the surface with Enviro-Grip® EP#1 before proceeding.

At 77°F (25°C) and 50% relative humidity, allow a minimum 48 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

Topshield® 5600EF is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes.

Do not use Polyglaze Hardener with Topshield® 5600EF, an already fast curing material.

EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

Topshield® 5600EF has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers.

LIMITATIONS

Surfaces must be dry, clean and free of foreign matter.

Surface may be slippery when wet.

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Will chalk, fade and discolor over time.

Containers that have been opened must be used as soon as possible.

Do not dilute under any circumstance.

The following conditions must not be coated with PSI deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces and asphalt overlays.

WARNING
This product contains Isocyanates.

This product is considered Dangerous Goods. DOT regulations classify it as:

Side-B: UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

LIMITED WARRANTY
PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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