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TOPSHIELD® 500EF
*Aromatic Urethane Polyurea
 Solvent Free Topcoat*

DESCRIPTION

Topshield®500EF is an aromatic, single component, environmentally friendly, high solids, liquid applied, moisture cured, urethane surface protection coating. Topshield®500EF is designed to be used in low VOC and low odor environments including the Southern California Air Quality Management District and in compliance with the Air Quality Standards.

FEATURES

- ❖ Environmentally Friendly
- ❖ Good Weatherability
- ❖ Seamless Waterproofing Membrane

TYPICAL USES

- ❖ Concrete
- ❖ Plywood
- ❖ Pedestrian Traffic
- ❖ Vehicular Traffic
- ❖ Resealing Existing Urethane Surfaces
- ❖ Most Metal, Rubber, Wood, or Masonry Surfaces

COLORS

Stone Grey

Custom colors are also available. Minimum order of 300 gallons (1136 liters). See color chart for special provisions.

PACKAGING

1 gallon (3.79 liter) can with vial of catalyst
 5 gallon (18.9 liter) pails with ½ pint (0.24 liter) can of catalyst
 55 gallon drums, net fill 50 gallons (189 liters) with 1 quart (0.95 liter) can of catalyst

MIXING

Before application, mix Topshield® 500EF using a mechanical mixer at slow speed. Add Topshield®500EF Catalyst and continue mixing until a homogenous mixture and color is obtained. Boxing of material is recommended. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened

TECHNICAL DATA

Coverage Rate	See Guide Specifications
Dry Film Thickness, exclusive of aggregate, Per coat @ 1gal/100 sq.ft.	14 mils 356 microns
Hardness, ASTM D-2240	85 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	300 ± 50 pli 52.5 ± 8.8 kNm
Tensile Strength, ASTM D-412	2500 ± 300 psi 17.2 ± 2 MPa
Ultimate Elongation, ASTM D-412	500 ± 50%
Specific Gravity	1.197
Total Solids by Weight, ASTM D-2369	92.5%
Total Solids by Volume, ASTM D-2697	90.0%
Viscosity at 75°F (24°C)	4000 ± 2000cps
Volatile Organic Compounds, ASTM D-2369-81	0.74 lb/gal 89 gm/liter

pot life.

APPLICATION

For best results, use a squeegee or notched trowel. Care should be taken not to cause air bubbles.

Apply Topshield® 500EF evenly over the entire surface. Application should be continuous to ensure a smooth and level coat with no lines or streaks to disfigure the deck.

Topshield® 500EF may require more than one coat depending on the job specifications and requirements. When estimating material requirements, coverage rates tend to increase for subsequent coats of material. To obtain proper adhesion between coats it is imperative that recoating be done within 48 hours.

When Topshield® 500EF is used as a seal coat only, the surface must be clean, dry and primed with Enviro-Grip® EP#1 to achieve proper adhesion to the surface.

CURING

At 70°F (21°C) and 50% relative humidity, allow each coat to cure of 16 hours. If more than 48 hours passes

between coats, re-prime the surface with PSI Primer before proceeding.

At 70°F (21°C) and 50% relative humidity, allow 24-48 hours before permitting light pedestrian traffic and at least 72-96 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

Uncured Topshield® 500EF is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.

Low temperature and/or low humidity extend the cure time.

To accelerate cure Topshield® Accelerator may be used.

EQUIPMENT CLEANUP

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

STORAGE

Topshield® 500EF 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.

Will fade, chalk and discolor over time.

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

Do not dilute under any circumstance.

WARNING

This product contains Isocyanates.

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.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.