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TOPSHIELD® 247-EF

*TDI Free, Aromatic Wear Resistant
 Urethane Polyurea for Heavy Duty Applications*

DESCRIPTION

Topshield® 247-EF is a single component, TDI-Free, liquid applied, moisture cured, aromatic urethane waterproof membrane.

FEATURES

- ❖ Economical
- ❖ Good Weatherability

TYPICAL USES

- ❖ Concrete Decks
- ❖ Heavy Auto Traffic
- ❖ Parking Structures
- ❖ Heavy Pedestrian Traffic
- ❖ Plywood Deck

COLOR

Light Grey

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

PACKAGING

5 gallon (18.9 liter) pail with ½ pint (0.24 liter) can of catalyst

55 gallon drum, net fill 50 gallons (189 liters) with 1 quart (0.95 liter) can of catalyst

MIXING

Before application, mix Topshield® using a mechanical mixer (Jiffy Mixer) at slow speeds. Add Topshield® 247-EF Catalyst and continue mixing until a homogeneous mixture and color is obtained. Topshield®247-EF may be mixed by hand if mixed for at least 5 minutes. Use caution not to entrap air into the material as this may result in pinhole blisters or shortened pot life.

APPLICATION

For best results use a squeegee. Airless sprayer or phenolic core roller may be used but extra care should be taken not to cause air bubbles.

Apply Topshield® 247-EF evenly over the entire deck. Application should be

TECHNICAL DATA

Coverage Rate	See Guide Specifications
Dry Film Thickness, exclusive of aggregate, Per coat @ 1gal/100 sq.ft.	11 mils 279 microns
Hardness, ASTM D-2240	90 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	500 ± 50 pli 87.6 ± 8.8 kNm
Tensile Strength, ASTM D-412	3500 ± 300 psi 24.1 ± 2 MPa
Ultimate Elongation, ASTM D-412	450 ± 50%
Specific Gravity	1.164
Total Solids by Weight, ASTM D-2369	79.9%
Total Solids by Volume, ASTM D-2697	73.3%
Viscosity at 75°F (24°C)	1800 ± 500cps
Volatile Organic Compounds ASTM D-2369-81	1.95 lb/gal 234 gm/liter

continuous to ensure a smooth and level coat with no lines or streaks to disfigure the deck. Allow coating to cure a minimum of 16 hours before proceeding to subsequent coats. To obtain proper adhesion between coats it is imperative that recoating be done within 48 hours.

CURING

At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 16 hours between each coat. If more than 48 hours passes between coats, re-prime the surface with PSI primers before proceeding.

Allow 24 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.

Topshield® 247-EF 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.

EQUIPMENT CLEANUP

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

STORAGE

Topshield® 247-EF has a shelf life of twelve (12) months from date of manufacture in original, factory sealed containers.

LIMITATIONS

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

Slippery when wet.

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.

WARNING

This product contains Isocyanate and Solvent.

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.