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TOPSHIELD® WB
*Waterborne Aliphatic Urethane
 Polyurea Topcoat*

DESCRIPTION

Topshield® WB is a waterborne polymeric dispersion of UV-stable aliphatic polyurea, and aliphatic polyurethane polymers. This waterborne coating has been specially formulated as a durable, color-stable, abrasion resistant coating for concrete and masonry surfaces.

FEATURES

- ❖ UV Stable
- ❖ Good Color Retention
- ❖ Excellent Weatherability
- ❖ Fast Dry
- ❖ Low Odor
- ❖ Good Stain Resistance

TYPICAL USES

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

COLORS

Clear in Gloss or Matte Finish

Custom colors are available upon request with minimum quantity of 100 gallons and additional cost may apply.

PACKAGING

- 1 gallon (3.78 liter) can
- 5 gallon (19 liter) pail
- 55 gallon drum, net fill 50 gal (189 liters)

Contact PSI for availability.

MIXING

Before application, mix Topshield® WB using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Mix Topshield® WB thoroughly until a homogenous mixture and color is obtained.

APPLICATION

Apply to surfaces at temperatures between 60°F (15°C) and 90°F (32°C).

The first coat of Topshield® WB should be applied at the rate of 0.16 liters/

TECHNICAL DATA

Coverage Rate	1 gals/ 250 sq.ft. 0.16 l/m ²
Dry Film Thickness, exclusive as aggregate Per coat @ 1 gal/250 sq. ft	2 ± 0.5 mils 50 ± 10 micron
Pencil Hardness, ASTM D-2240	2 H
Tear Resistance, Die C, ASTM D-624	600 ± 50 pli 105 ± 8.7 kNm
Tensile Strength, ASTM D-412	4500 ± 300 psi 31 ± 2 MPa
Ultimate Elongation, ASTM D-412	120 ± 20%
Specific Gravity	1.01
Total Solids by Weight, ASTM D-2369	31.6%
Total Solids by Volume, ASTM D-2697	31.2%
Viscosity at 24°C (75°F)	66 ± 5 KU
Volatile Organic Compounds ASTM D-2369-81	1.67 lb/gal 199 gm/liter

square meter (1 gallon/250 square feet). For best results, airless sprayer or phenolic core roller may be used, but extra care should be taken not to cause air bubbles. Apply Topshield® WB evenly over the entire deck resulting in 2 ± 0.5 dry mils (50 ± 10 microns). After 1-2 hours at 75°F, proceed to the second coat.

Topshield® WB 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 re-coating be done within 6 hours.

CURING

At 75°F (24°C) and 50% relative humidity, allow Topshield® WB to cure a minimum of 1-2 hours between each coat. If more than 6 hours passes between coats, re-prime the surface.

Allow 4-6 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on to the finished surface.

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

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

EQUIPMENT CLEANUP

Equipment can be cleaned with soapy water before the coating dries. If the coating is left to dry it is very difficult to remove.

STORAGE

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

LIMITATIONS

DO NOT allow Topshield® WB to freeze. It is not freeze/thaw stable. For best shelf life store between 40°F and 100°F.

Surfaces must be dry, clean and free of foreign matter. Surface may be slippery when wet.

Topshield® WB has good chemical resistance properties.

Do not dilute under any circumstance.

Refer to general guidelines for more information.

WARNING

This product contains 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.