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**TOPSHIELD® AR-SF**  
*Aromatic Urethane Polyurea  
 Solvent Free Topcoat*

**DESCRIPTION**

Topshield®AR-SF is an aromatic, single component, high solids, environmentally safe, liquid applied, moisture cured, urethane polyurea surface protection coating.

**FEATURES**

- ❖ Low Odor
- ❖ Solvent Free
- ❖ Good Weatherability
- ❖ Environmentally Safe
- ❖ Seamless Waterproofing Membrane

**TYPICAL USES**

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

**COLORS**

Light Grey, Tan

Custom colors are also available. Minimum order of 300 gallons (1136 liters).

**PACKAGING**

- 1 gallon (3.78 liter) can with vial of catalyst
- 5 gallon (19 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®AR-SF using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Add Topshield® Catalyst and continue mixing until a homogenous mixture and color is obtained. Boxing of material is recommended. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened potlife.

**TECHNICAL DATA**

Coverage Rate .....	See Guide Specifications
Dry Film Thickness, exclusive of aggregate, Per coat @ 1 gal/100 sq. ft. ....	16 mils 406 microns
Hardness, ASTM D-2240 .....	80 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624 .....	350 ± 50 pli 61.3 ± 8.8 kn/m
Tensile Strength, ASTM D-412 .....	2200 ± 300 psi 15.2 ± 2 MPa
Ultimate Elongation, ASTM D-412 .....	500 ± 50%
Specific Gravity .....	1.2
Total Solids by Weight, ASTM D-2369 .....	99.8%
Total Solids by Volume, ASTM D-2697 .....	99.8%
Viscosity at 75°F (24°C) .....	3500 ± 1500cps
Volatiles Organic Compounds, ASTM D-2369-81 .....	0.0164 lb/gal 2 gm/liter

**APPLICATION**

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

Apply Topshield®AR-SF 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 finish.

Topshield®AR-SF 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®AR-SF is used as a seal coat only, the surface must be clean, dry and primed with recommended PSI Primer to achieve proper adhesion to the surface.

**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 recommended 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®AR-SF 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®AR-SF 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.

For ease of application, solvent free (SF) materials should be applied in temperatures greater than 60°F (15.5°C).

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 with solvent under any circumstance.

#### **WARNING**

**This product contains Isocyanates.**

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**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.