1.01 DESCRIPTION
Topshield® 5600 is a two component, fast setting, rapid curing, solvent free, 100% solids, hybrid-aliphatic topcoat. Topshield® 5600 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 (-6.7ºC). Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 FEATURES
- Can Be Applied at Any Thickness
- Coats Green (Vented) Concrete
- Environmentally Safe
- Good Chemical Resistance
- Meets ASTM C-957
- Meets USDA Criteria
- MIAMI DADE Approved
- Non Gassing
- Recoatable
- Seamless
- Solvent Free

1.03 USES
- Heavy Duty Vehicular Decks & Ramps
- Kennels
- Mechanical Room Floors
- Pedestrian Balcony & Breezeways

1.04 COLOR
Grey
Custom colors are also available. Minimum order of 500 gallons (945 gallons). See color chart for special provisions.

1.05 PACKAGING
4.4-gallon kit: 5 gallons (net 4 gallons, 15.1 liters) pail of Side-A and 1/2 gallon (net 0.4 gallon, 1.5 liters) jar of Side-B.

1.06 SURFACE PREPARATION
Install a 100-200 sqft (9.30-18.58 sqm) mockup of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding. Use Enviro-Grip™ PUR#555 primer for intercoat adhesion between existing urethane coatings.

Surfaces shall be broomed clean, dry, sound and free of voids, bugholes, rockpockets, honeycombs, protrusions, excessive roughness, foreign matter, frost, ice and other contaminants which may inhibit application or performance of the waterproof coating system.

Use suitable abrasive methods, remove residue of form release, curing compounds, chemical retarders, and other surface treatments, mortar smear, saw-cutting residue, mill scale, rust, loose material and other contaminants from concrete, masonry, and ferrous metal surfaces to receive the work in this section. Depending on the condition of the deck, a minimum of 3,500 to 5000 psi powerwash may be acceptable or shotblasting. Contact PSI for project specific recommendations. Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch cleaner. Peel and adhesion tests are recommended.

TECHNICAL DATA 
Based on draw down films

<table>
<thead>
<tr>
<th>Theoretical Coverage Rate</th>
<th>See individual Guide Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Film Thickness, Exclusive of Aggregate, Per Coat @ 1 gallon/100 sqft (0.41 liters/sqm)</td>
<td>15 ± 2 mils (381 ± 50 microns)</td>
</tr>
<tr>
<td>Pot Life at 75°F (24°C) at 50% RH</td>
<td>30 ± 10 minutes</td>
</tr>
<tr>
<td>Cure Time at 75°F (24°C) at 50% RH</td>
<td>2-4 hours</td>
</tr>
<tr>
<td>Mix Ratio</td>
<td>A:B - 10:1</td>
</tr>
<tr>
<td>Viscosity at 75°F (24°C)</td>
<td>A-Side: 2500-4000 cps</td>
</tr>
<tr>
<td></td>
<td>B-Side: 50-100 cps</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>A-Side: 1.09 ± 0.1</td>
</tr>
<tr>
<td></td>
<td>B-Side: 0.94 ± 0.1</td>
</tr>
<tr>
<td>Solids by Weight ASTM D-2369</td>
<td>94 ± 2%</td>
</tr>
<tr>
<td>Solids by Volume ASTM D-2697</td>
<td>94 ± 2%</td>
</tr>
<tr>
<td>Hardness, ASTM D-2240 Shore A</td>
<td>85 ± 5</td>
</tr>
<tr>
<td>Tensile Strength, ASTM-D412</td>
<td>3200 ± 10% psi (22.1± 10% MPa)</td>
</tr>
<tr>
<td>Percent Elongation, ASTM D-412</td>
<td>450 ± 10%</td>
</tr>
<tr>
<td>Moisture Vapor Transmission, ASTM E-96</td>
<td>1.54 perms</td>
</tr>
<tr>
<td>Adhesive Peel Strength on Primed Concrete; ASTM D-903</td>
<td>40± 10% pli (7.0 ± 10% kNm)</td>
</tr>
<tr>
<td>Water Absorption, ASTM D-471</td>
<td>1.3% by weight</td>
</tr>
<tr>
<td>Tear Resistance, ASTM D-624</td>
<td>300 ± 20% pli 52.6 ± kNm</td>
</tr>
<tr>
<td>Volatile Organic Compounds, ASTM D-2369-81</td>
<td>&lt;0.125 lbs/gal (&lt;15 gm/liter)</td>
</tr>
<tr>
<td>U.V. Stability, Q Panel Weather-O-Meter 2000 hrs</td>
<td>No Cracking or Crazing; No Physical Damage</td>
</tr>
</tbody>
</table>
Concrete:
1. Provide a surface with a smooth finish, followed by a fine-hairbroom.
2. All previous concrete patches must be sound and inspected for acceptability prior application of the coating.
3. Unsound patches are to be replaced for acceptability prior to application of the coating.
4. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3.
5. Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch cleaner. Peel and adhesion tests are recommended.

1.07 MIXING
Before application, pre-mix Side-A of Topshield® 5600 using a mechanical mixer at slow speed. Add Side-B of Topshield® 5600 and continue mixing until a homogeneous mixture and color is attained. Use caution not to whip air into the material as this may result in pinhole blisters and/or shorter pot life. Box the last gallon(s) of the last used batch numbers with the new batch number to prevent hue or shading variation.

APPLICATION
2.01 APPLICATION BASICS
Apply Topshield® 5600 evenly, over the entire deck using a 10:1 ratio. Apply by notched squeegee or notched trowel over the entire deck.
A continuous coating application is required to minimize lines and/or streaking. To obtain proper adhesion between coats, it is imperative that recoating be completed within 24 hours.
Refer to individual Systems Description under System Specifications Section of the PSI catalog or website for specific coverage rates.
Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

2.02 CURING
At 70°F (21°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours. If more than 24 hours passes between coats, reprime the surface with PSI Primer before proceeding.
At 70°F (21°C) and 50% relative humidity, allow a minimum of 48 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on the finished surface.
Topshield® 5600 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 Topshield® Accelerator with Topshield® 5600, because it is already a fast curing material.

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

2.04 SHELF LIFE AND STORAGE
Topshield® 5600 has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.05 LIMITATIONS
- Surfaces must be dry, clean and free of foreign matter.
- May 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.

The following conditions must not be coated with PSI deck coating systems or products:
1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs on unventilated metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer and asphalt surfaces, asphalt overlays without the express written consent of PSI. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.
2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.
3) New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. Light broom finished concrete should be power-washed before coating application.
4) Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch (PE) cleaner. Peel and adhesion tests are recommended.

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.

WARNING: This product contains isocyanate.