TOPSHIELD® 500
A Single Component, Aromatic Topcoat for Use on Concrete and Plywood

1.01 DESCRIPTION
Topshield® 500 is an aromatic, 250 VOC, one component, liquid applied, moisture cured, urethane topcoat. 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
- Good Weatherability

1.03 USES
- Concrete Decks
- Metal, Wood or Masonry Surfaces
- Pedestrian Traffic
- Plywood Decks
- Recoating Existing Urethane Surfaces
- Vehicular Traffic

1.04 COLOR
Dark grey

1.05 PACKAGING
1 gallon (3.78 liter) can
5 gallon (18.9 liter) pail
55-gallon drum, net fill 50 gallons (189 liters)

1.06 SURFACE PREPARATION
Refer to General and Safety Guidelines for complete information. Install a 100-200 sqft (9.3-18.6 sqm) mockup of the system to be installed and approve for aesthetics, color, slip resistance, actual coverage rates and functionality before proceeding.

1.07 MIXING
Before application, mix Topshield® 500 using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Boxing of the material is recommended. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life.

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

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

Topshield® 500 may require more than one coat depending on the job specifications and requirements. To obtain proper adhesion between coats it is imperative that recoating be done within 48 hours.

Refer to individual Systems Description under System Specifications section of the PSI catalog or website for specific coverage rates.

When Topshield® 500 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.

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 16 hours between each coat. If more than 48 hours passes between coats, re-prime the surface with recommended PSI Primer before proceeding.

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

Uncured Topshield® 500 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.

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® 500 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 over unvented 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. 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-

WARNING: This product contains isocyanates and solvent.