

## UV-Resistant, Clear High-Build Epoxy Floor Coating for Light and Moderate Duty Commercial and Industrial Use

### PRODUCT DESCRIPTION

UV Shield™ is a two-component, 100% solids hybrid epoxy resin, designed to eliminate the yellowing common to most 100% solids epoxies. Formulated for superior resistance to ultra-violet degradation and excellent resistance to impact and abrasion. Has virtually no odor and can be used as a zero VOC alternative to chemical resistant urethane finish coats. Used primarily as a finish coat for Quartz and Flake decorative flooring systems or as the primary wearing surface when applied to primed concrete. Recommended for indoor use only.

U.S.D.A. acceptable.

### APPLICATIONS

UVShield can be used as a top coat and wearing surface on a variety of prepared substrates:

- Epoxy primed concrete.
- Troweled resinous flooring.
- Decorative floor systems.
- Self-leveling systems.
- Can be pigmented

<b>Shelf Life:</b>	6 months
<b>Pot Life at 75°F:</b>	30 min.
<b>Thin Film Cure:</b>	12 - 16hrs
<b>Light Traffic Use:</b>	24 hrs
<b>Full Cure at 75°F:</b>	7 days
<b>Mix Ratio:</b>	2:1 by volume

### CURED RESIN PERFORMANCE

<u>Test Description</u>	<u>Test Method</u>
<b>Compressive Strength</b> 11,000 PSI	ASTM D 695
<b>Tensile Strength, Min.</b> 8,000 PSI	STM D 638
<b>Elongation @ Break</b> 14%	ASTM D 638
<b>Flexural Strength</b> 10,000 PSI	ASTM D 790
<b>Flexural Modulus</b> 400,000 PSI	ASTM D 790
<b>Shore D Hardness</b> 82	ASTM D 2240
<b>Adhesion</b> 400 PSI	ASTM D 4541
<b>Impact Resistance</b> Sec. 4.7.3 16 ft./lbs.	Mil-D-3134 Passes
<b>Taber Abrasion</b> 89 mg/1000rev., cs17	ASTM D 4060
<b>Water Resistance</b> <2%	ASTM D 570
<b>MVT (Moisture Vapor Transmission)</b> 96 0.10 Perm @ 20 Mils	ASTM E
<b>Fungus &amp; Bacteria Resistance</b> 52505 No Support of Growth Under TT-P-34	Mil-F-
<b>Coefficient of Thermal Expansion</b> Temperature Range -22°F(-22°C) / 86°F(30°C) 7 Days 18.0 X 10 <sup>-6</sup> in/in./°F	ASTM D 696

### PRODUCT DATA

Weight per Gallon	9.1 lbs/gal (mixed)
Solids %	100% (mixed)
Viscosity	500 cps (mixed)
Flash Point	>205°F
VOC EPA Method 24	<10 g/l

### ORDER SPECIFICATIONS

UVShield 1 gal	EP-UVC-1
UVShield 3 gal	EP-UVC-3
UVShield 5 gal	EP-UVC-5

## How to Apply UV Shield™

### SURFACE PREPARATION

**Designed for application over previously primed or broadcast surfaces only.** Prior to priming/broadcasting all substrate surfaces must be cleaned or abraded to a sound surface. Concrete and other substrates must be clean, sound, and free of dust, grease, waxes, coatings, curing compounds and all contaminants. Typical removal methods include dust-free abrasive blasting. Clean the substrate to the desired surface profile for the overlay system selected.

### TEST SUBSTRATE FOR CLEANNESS AND ADHESION

Before placement of the Polymer Overlay test the cleaned concrete substrate for soundness and cleanliness with a Tensile Pull Test ACI 503 R (min.200 psi) or Concrete Coatings Inc. Surface Shear Test. 100% concrete must fail to pass either test without bond line failure.

### PRECONDITIONING POLYMER

When temperatures drop polymers typically thicken and it becomes harder to flow or to spread the product. When the temperatures are warmer they typically become thinner. To improve the flow-ability, maintain product temperature before mixing at about 20°C (73°F). When the substrate temperature is 15°C (60°F) or lower preheat each epoxy component to 90°F before mixing. Caution: the pot life will be reduced by about 50%.

### CUSTOMER SATISFACTION

Apply a test area to ensure that the application meets the customer's expectations.

### MIXING

Pre-mix Component "A", (when pigmented) then pour Component "B" into "A" and mix for 90 seconds (until one even colors develops) with a low speed paddle attached to a drill (400-600rpm). The mixed product is ready for immediate placement.

### COVERAGE

Product coverage is 100-200 sq ft per gallon depended upon the existing substrate surface profile and thickness of the designed system.

### APPLICATION METHODS

Apply by squeegee in left to right motions, and back roll with a short nap roller at 90° angles to squeegee lines. Do not roll excessively, only enough to smooth material.

### LIMITATIONS

- Substrate temperature must be 3°C (5°F) above measured dew point temperature.
- Minimum application temp is 10°C (50°F).
- DO NOT APPLY on WET SUBSTRATE.
- DO NOT THIN - solvents could prevent proper cure.
- Aggregate must be dry when used.
- Pre-condition polymer as needed.

### MAINTENANCE

For maximum life expectancy, routinely sweep and wash floors with appropriate cleaners and detergents. All chemicals or abrasive grit should be removed as soon as possible.

### KEEP CONTAINERS TIGHTLY CLOSED

### CAUTION

#### Component "A"- Irritant

Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid contact with eyes.

#### Component "B" - Corrosive

Contains aliphatic/cycloaliphatic amines. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer

### Important Information

Use of safety goggles, chemical-resistant gloves, adequate ventilation and NIOSH/MSHA approved respirator is recommended.

### CLEAN UP

In case of spills wear suitable protective equipment, contain spill, collect with absorbent material, place in suitable container. Ventilate area. Avoid contact. Dispose according to applicable local, state, and federal regulations.

### FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact Physician Immediately. Wash clothing before re-use.

Consult Material Safety Data Sheet for More Information

**FOR INDUSTRIAL  
USE ONLY  
KEEP OUT OF REACH  
OF CHILDREN**

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