

UV-RESISTANT, CLEAR, HIGH-BUILD EPOXY FLOOR COATING FOR LIGHT- AND MODERATE-DUTY COMMERCIAL AND INDUSTRIAL USE

PRODUCT DESCRIPTION

UV ShieldTM 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.

APPLICATIONS

UV Shield 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

TYPICAL DATA FOR UV SHIELDTM - (CURED RESIN)

Compressive Strength

ASTM D 695 11,000 PSI

Tensile Strength, Min.

STM D 638 8,000 PSI

Elongation @ Break

ASTM D 638 14%

Flexural Strength

ASTM D 790 10,000 PSI

Flexural Modulus

ASTM D 790 400,000 PSI

Shore D Hardness

ASTM D 2240 82

Adhesion

ASTM D 4541 400 PSI

Impact Resistance

Mil-D-3134 Passes Sec. 4.7.3 16 ft./lbs.

Taber Abrasion

ASTM D 4060 89 mg/1000rev., cs17

Water Resistance

ASTM D 570 <2%

MVT (Moisture Vapor Transmission)

ASTM E 96 0.10 Perm @ 20 Mils

Fungus & Bacteria Resistance

Mil-F-52505 No Support of Growth Under TT-P-34

Coefficient of Thermal Expansion

ASTM D 696 Temperature Range -22°F (-22°C)/86°F (30°C)
7 Days 18.0 X 10⁻⁶ in/in./°F

PRODUCT DATA

Weight per Gallon 9.1 lbs/gal (mixed)

Solids Percentage 100% (mixed)

Viscosity 500 cps (mixed)

Flash Point >205°F

VOC EPA Method 24 <10 g/l

PACKAGING

UV ShieldTM is available in one-gallon (3.8L,) three-gallon (11.35L,) five-gallon (18.925L,) and fifteen-gallon (56.78L) containers and one-hundred-fifty gallon (567.81L) drums.

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.

Before applying UV ShieldTM, test the cleaned concrete substrate for soundness and cleanliness with a Tensile Pull Test ACI 503 R (min.200 psi) or Surface Shear Test. 100% concrete must fail to pass either test without bond line failure.

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



MIXING

Pre-mix Component A (when pigmented,) then pour Component B into Component A and mix for 90 seconds with a low speed paddle attached to a drill at 400-600RPM until one, even color develops. 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 5°F (3°C) above measured dew point temperature
- Minimum application temp is 50°F (10°C)
- DO NOT APPLY ON WET SUBSTRATE
- DO NOT THIN - solvents could prevent proper cure
- Aggregate must be dry when used
- Pre-condition epoxy 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.

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

ORDER SPECIFICATION

| | | |
|---------------------------------------|---------------------------------------|---------------------|
| Product: UV Shield™ | | |
| Shipping Weight: 10 lbs (4.53 kg) | Container Size: 1 Gallon (3.79 L) | Item No: EP-UVC-1 |
| Shipping Weight: 30 lbs (13.6 kg) | Container Size: 3 Gallon (11.35 L) | Item No: EP-UVC-3 |
| Shipping Weight: 50 lbs (22.68 kg) | Container Size: 5 Gallon (18.925 L) | Item No: EP-UVC-5 |
| Shipping Weight: 150 lbs (68.04 kg) | Container Size: 15 Gallon (56.78 L) | Item No: EP-UVC-15 |
| Shipping Weight: 1500 lbs (680.39 kg) | Container Size: 150 Gallon (567.81 L) | Item No: EP-UVC-150 |

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