

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

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

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

CURED RESIN PERFORMANCE

<u>Test Description</u>	<u>Test Method</u>
Compressive Strength 11,000 PSI	ASTM D 695
Tensile Strength, Min. 8,000 PSI	ASTM D 638
Elongation @ Break 14%	ASTM D 638
Flexural Strength 10,000 PSI	ASTM D 790
Flexural Modulus 400,000 PSI	ASTM D 790
Shore D Hardness 82	ASTM D 2240
Adhesion 400 PSI	ASTM D 4541
Impact Resistance Sec. 4.7.3 16 ft./lbs.	Mil-D-3134 Passes
Taber Abrasion 89 mg/1000rev., cs17	ASTM D 4060
Water Resistance <2%	ASTM D 570
MVT (Moisture Vapor Transmission) 0.10 Perm @ 20 Mils	ASTM E 96
Fungus & Bacteria Resistance No Support of Growth Under TT-P-34	Mil-F-52505

PRODUCT DATA

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

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 depended upon the existing substrate surface profile and thickness of the designed system. Refer to Concrete Coatings Inc. Application Method Guide and Specifications.

APPLICATION METHODS

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LIMITATIONS

- Substrate temperature must be 3°C (5°F) above measured dew point temperature.
- Minimum application temperature 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.

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
KEEP CONTAINERS TIGHTLY CLOSED

"Concrete Coatings Inc. warrants its products to be free of manufacturing defects and that they will meet Concrete Coatings Inc. current published physical properties when applied in accordance with Concrete Coatings Inc. written directions and tested in accordance with ACI, ASTM and Concrete Coatings Inc. Standards. There are no other warranties by Concrete Coatings Inc. of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Concrete Coatings Inc. 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, from any other cause whatsoever. Concrete Coatings Inc. will not be responsible for use of this product in a manner to infringe on any patent held by others."

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