

High-Build Pigmented Epoxy Floor Coating for Light and Moderate Duty Commercial and Industrial Use

PRODUCT DESCRIPTION	CURED RESIN PERFORMANCE	
Shield 50 [™] , is a 100% solids, non-	Test Description	Test Method
pigmented epoxy floor coating.	Compressive Strength	ASTM D 6957
	Days = 14,200 F 31	
On dry concrete surfaces as a pigmented base coat or clear top	Tensile Strength, Min. 8 800 PSI	ASTM D 638
coat for foot and vehicular	Elongation @ Break	ASTM D 638
pneumatic tire traffic. Also used as		
systems:	16.000 PSI	ASTM D 790
- Food Processing		
 Pharmaceutical Plants Acid Stain Top Coat 	400,000 PSI	ASTIM D 790
Alla Stain Top Soat	Shore D Hardness	ASTM D 2240
ADVANTAGES	80	
- Good Working Time	Adhesion	ASTM D 4541
- Nearly No Odor	400 PSI	
- No VOC's – 100%Solids	Impact Resistance	Mil-D-3134 Passes
 Medium Cure Rate 	Sec. 4.7.3 16 ft./lbs.	
- Cures down to 50°F (10°C)	Taber Abrasion	ASTM D 4060
Excellent Strength Properties High Compressive Strength	Weter Desistance	
 Excellent Impact Resistant 	<pre>vater Resistance <0.21%</pre>	ASTM D 570
- DOT Non-Corrosive	MVT (Moisture Vapor Transmission)	ASTM F
- Easy to Place	96	
Textured Polymer Overlay	0.10 Perm @ 20 Mils	
Typical Neat Coverage	Fungus & Bacteria Resistance	Mil-F-
$\mathbf{P}_{\text{resc}} = \mathbf{P}_{\text{resc}} + \mathbf{P}$	No Support of Growth Under TT-P-34	
	Coefficient of Thermal Expansion	ASTM D 696
Top Coat: 10 Mils (160ft ² /Gal)	Temperature Range -22°F(-22°C) / 86°F(3 7 Days 18.0 X 10^{-6} in/in./°F	ю°С)
Shelf Life: 6 months	PRODUCT DATA	
Pot Life at 73°F: 25-35 min.	Weight per Gallon	9.1 lbs/gl (mixed
Thin Film Cure: 5 – 12 hrs	Solids % Viscosity	100% (mixed) 500-750 cps (mixed)
Light Traffic Use: 24 hrs	Flash Point	>205°F
	VOC EPA Method 24	<10 g/l
Nin Deties Ord humahara	ORDER SPECIFICATIONS	
WIX KATIO: 2:1 by Volume	Shield50 1 gal	EP-S50-1
	Shield50 3 gal	EP-S50-3
	Shield50 15 gal	EP-S50-5
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SURFACE PREPARATION

All substrate surfaces must have all loose and deterioration removed 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 blasting. Clean abrasive the substrate to the desired surface profile for the overlay system selected. Follow the CCI Surface Preparation Guide for best results.

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 potlife will be reduced by about 50%.

CUSTOMER SATISFACTION

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

Keep containers tightly closed

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). 5-10% Xylene may be added to the completed mix. In some cases this helps to minimize bubbling caused from warmer conditions or accelerated cure. Mix slowly and thoroughly. 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 temperature is 10°C (50°F).
- DO NOT APPLY on WET OR DAMP SUBSTRATE.
- 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.

Shield 50[™]

Technical Information Sheet

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

"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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