

## SOLHYDROCOAT EPOXY CLEAR

Solvent free epoxy polymer system with high abrasion resistance and good chemical resistance

**SOLHYDROCOAT EPOXY CLEAR** is a 100% solids epoxy polymer system with excellent all around application properties. Either as a stand-alone coating or as a binder for various **SOLHYDROCOAT** and **SOLHYDROTOP** systems, it provides high abrasion resistance and good chemical resistance. With no solvent present in the formula, **SOLHYDROCOAT EPOXY CLEAR** complies with strictest V.O.C. regulations while offering extremely low odor levels during product installation.

### USES

Specially designed multifunctional epoxy resin system which can be used as a primer, smooth surface coating, textured coating, self leveling broadcast system and trowel applied system.

#### TYPICAL USES:

- Decorative commercial floors
- Institutional buildings
- Pharmaceutical plant floors
- Food industry warehouse and plant floors
- Chemical plant floors
- Industrial and commercial floors

### PRODUCT FEATURES

- Contains no solvents
- No harmful odors during application
- Will not contaminate foods because of the absence of V.O.C.
- Fast curing
- Excellent wear and abrasion resistance
- Excellent durability, providing up to 3 to 5 times the life expectancy of conventional coatings

### SURFACE PREPARATION

Concrete surfaces must be clean, sound and free of old existing coatings. New concrete should cure a minimum of 28 days. Dry surfaces allow easier application of this product, however, product will adhere to clean, damp surfaces. Remove all debris from working surface. Remove all oils, greases, dirt and wax solutions from surface. Use suitable means to remove contaminants, heavy laitance, or curing compounds, which will interfere with proper adhesion. Special consideration must be given to oil or other foreign material which may have penetrated into the concrete. Pull Tests are recommended to verify adequacy of preparation. Repair all cracks with appropriate **SOLHYDROWELD** resin.

### PRIMING

No primer required; **SOLHYDROCOAT EPOXY CLEAR** is self-priming.

### PRODUCT MIXING

**SOLHYDROCOAT EPOXY CLEAR** is supplied in a 11.4 L (3 gal) unit. Measure out components, respecting the 2:1 ratio. First ensure each component is fully mixed to an even consistency. Mix all contents of components "B" into component "A" until one even colour develops. Mixing should be done with low speed mixer (max. 300 rpm).

### PHYSICAL MATERIAL PROPERTIES @ 25°C (77°F)

PHYSICAL TESTING		CURE TIME		
		10°C (50°F)	25°C (77°F)	
Tensile Strength ASTM D638	4300 psi) 30 MPa			
Compressive Strength ASTM C579	(14,500 psi) 100 MPa			Pot life 200 g - 18 minutes
Flexural Strength ASTM D79	(8000 psi) 56.2 MPa	48 hours	24 hours	Initial set for light traffic
Hardness Shore D ASTM D2240	82			Through cure for heavy traffic
Elasticity Module ASTM D790	(5.0 x 10 <sup>5</sup> psi)			
Water Absorption ASTM D570	0.1%			Min. overcoating time 16 hours 6 hours
Thermal Shock Cycling	Passes 30 cycles (Test suspended)			Max. overcoating time 96 hours 48 hours
-5°C to 70°C (23°F to 158°F)				
Abrasion Resistance 1000 revs.	0.070 gm loss			
ASTM D1044	Taber 1 kg/wheels CS17			
Direct Bond Strength	(333 psi) 2.3 MPa			
	100% concrete failure			

  

	COMPONENT A RESIN	COMPONENT B HARDENER	MIXED A+B
Specific Gravity	1.15	1.05	1.12
Viscosity	600 cps	500 cps	550±50 cps
Color	Clear/colored	Clear amber	Clear/colored
% of Solids	-	-	100%

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### PRODUCT APPLICATION

#### PRIMER

Apply the prime coat onto the substrate using a squeegee or brush for the sides and hard to reach places. Once the product is spread in a uniform fashion, backroll the product using a short nap roller.

#### SMOOTH SURFACE COATING

Once prime coat has become tack free, apply the Top coat using a squeegee or brush for the sides and hard to reach places. Once the product is spread in a uniform fashion, backroll the product using a short nap roller.

#### TEXTURED COATING

Once the primer coat is tack free, apply a coat of **SOLHYDROAT FSC-OP** using a squeegee or brush for the sides and hard to reach places. Once the product is spread in a uniform fashion, use the special textured finished roller to backroll the product.

#### SELF LEVELING BROADCAST SYSTEM

Once primer coat has become tack free, apply a basecoat using a squeegee or brush for the hard to reach places. Once the product is spread in a uniform fashion, backroll the product using a short nap roller. While product is still wet broadcast the selected aggregate to saturation. The broadcasting of the elected aggregate should be done uniformly to avoid bumps and lumps of material.

Once the basecoat has hardened and developed enough resistance to support foot traffic without affecting the surface, apply the final topcoat using a squeegee or brush for hard to reach areas.

Once the product is spread in a uniform fashion, backroll the product using a short nap roller.

#### TROWEL APPLIED SYSTEM

Once the primer coat is tack free, add the **STRUCTUROC HCR-F** Part C (small aggregate) to the prepared Part A and Part B mixture and mix until a homogeneous uniform mix has been attained.

Apply the mixture to the surface using a steel trowel while continuously cleaning the trowel with acetone during the application in order to avoid accumulations of product on the tool and facilitating the finishing process.

Once the trowel applied material has set and developed sufficient strength to support foot traffic without affecting the surface, apply the final topcoat using a squeegee or brush for hard to reach areas. Once the product is spread in a uniform fashion, backroll the product using a short nap roller.

### CURING

**SOLHYDROAT EPOXY CLEAR** is a self-curing material.

### ESTIMATING/YIELD

**SOLHYDROAT EPOXY CLEAR** is packaged in 11.4 L (3 gal) units, we recommend a coverage rate of:

**Primer** 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal) (approx. rate)

#### Smooth Surface Coating

- Prime Coat: 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal)
- Top Coat: 3.25 m<sup>2</sup>/L (133 f<sup>2</sup>/gal)

#### Textured Coating

- Prime Coat: 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal)
- Top Coat: 3.25 m<sup>2</sup>/L (133 f<sup>2</sup>/gal) of **SOLHYDROAT FSC-OP**

#### Self Leveling Broadcast System

- Prime Coat: 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal)
- Base Coat: 1 m<sup>2</sup>/L (40 f<sup>2</sup>/gal)
- Broadcast Silica Sand or selected broadcast material to saturation.
- Top Coat: 4 m<sup>2</sup>/L (160 f<sup>2</sup>/gal)

#### Trowel Applied System

- Prime Coat: 5 m<sup>2</sup>/L (200 f<sup>2</sup>/gal)
- Screed Mortar: Mix **SOLHYDROAT EPOXY CLEAR** with **STRUCTUROC HCR-F** part "C" (small aggregate) to a mortar consistency. Apply at a thickness of 6 mm (1/4").
- Top Coat: 4 m<sup>2</sup>/L (160 f<sup>2</sup>/gal)

### PRECAUTIONS/RESTRICTIONS

- **SOLHYDROAT EPOXY CLEAR** performs best on a clean dry substrate, however it will adhere to a clean damp surface (but not on a wet surface).
- **SOLHYDROAT EPOXY CLEAR** coating will cure down to 0°C, however application properties are significantly better above 10°C (50°F) and are excellent at 20°C (68°F).

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### ■ PACKAGING

**SOLHYDROCOAT EPOXYCLEAR** 11.4 L (3 gal) per unit

### ■ RECOMMENDED TOOLS

The following tools will assure a cost effective, satisfactory installation:

- Squeegee
- Brush
- Short nap roller
- Spiked shoes
- Steel trowel

### ■ CLEANING

Use **ACETONE** as a cleaner.

### ■ STORAGE

**SOLHYDROCOAT EPOXY CLEAR** must be stored in a dry temperate area.  
Avoid freezing.

### ■ SAFETY

See Material Safety Data Sheet.

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SOLHYDROC WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Bulletin when used in accordance with its directions. SOLHYDROC makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

*For Professional Use Only*

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