

Simply Epoxy Coating

Promenade and Parking Deck Overlay System

Description

Simply Epoxy Coating is a two-component 100% solids epoxy designed as a binder and wear coating for very heavy to light weight vehicular and pedestrian traffic applications. The Simply Epoxy Coating may serve as a standalone system, an intermediate and/or topcoat where exposed aggregate, flake or quartz are used for aesthetic or decorative designs.

Typical Uses:

- Restoration of older concrete pavement decks
- New concrete decks and floors
- Repair of new concrete with curing cracks
- Protection of deck rebar from corrosion

Features:

- High Strength
- Chemical Resistance
- Extremely durable bonds
- Very low viscosity increase bond strength
- Fast setting
- Pre-measured packaging of components
- Minimal shrinkage upon cure
- Available in a multitude of colors and aggregates

Technical Data:

AASHTO TF-34 Epoxy Bridge Deck Overlay
ACI 548 Type EM (Epoxy Multi-Layer) Polymer Overlay
ASTM C-881, Type III, Grade I, Classes B & C

Coverage Guide:

See various applications guide.

Surface Preparation:

New Concrete surfaces should be well cured (28 day minimum) using water, wet burlap, polyethylene curing paper or dissipating resin based curing compound. Old concrete - remove any previously applied sealers, dust, dirt, tar, oil, etc. with pressure wash and appropriate cleaners to properly prepare the substrate. Membranes of any kind must be removed.

Install a 100-200 sq.ft. (9.30-18.58 sq.m) mock-up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding.

Mixing:

Condition material to 65 - 85 degrees F (18 - 29 degrees C) for ease of mixing and optimum flow prior to using. Premix each component for thirty seconds, then place 1 part by volume of Component A and 1 part by volume of Component B into a clean pail and mix for three minutes at a low speed with electric drill or mixer. Mix only what can be used within the pot life.

Placement:

Surface and ambient temperature must be a minimum of 50 degrees F (10 degrees C). Utilize one of the following methods for the application of the Simply Epoxy Coating and aggregate wearing course, as applicable.

Heavy Duty Broadcast Application:

The Simply Epoxy components, Part A and Part B, shall be premixed and proportioned to the correct ratio, as stated on the TDS. Mix material using a low speed, high torque drill fitted with a paddle or a helical stirrer. The mixed components shall be hand applied onto a prepared pavement surface at an application coverage rate of 40 sq.ft./gal. Hand applied base binder shall be uniformly spread onto the substrate surface by means of a (1/4") notched squeegee. Immediately, spread the high friction surfacing aggregate onto the epoxy at a minimum rate of 10 lbs/sq. yard. After the initial cure of the first course, remove all excess aggregate and apply course #2, spreading the neat Simply Epoxy Coating at a coverage rate of 20 sq.ft./gal., once again broadcasting the select aggregate to the point of rejection. After allowing the system to cure - 2.5 hours for course #1 and 4 hours for course #2 @ 70 degrees F (22 degrees C) and after all the aggregate has been removed it can be opened up to traffic.

Curing/Drying Time:

Minimum Closure Times -

Weather, average temperature of deck, Epoxy, and Aggregate Components in degrees F (C)

85 F + (29 C+)	1 Hour
75 - 84 F (24 - 29 C)	1 3/4 Hours
65 - 74 F (18 - 23 C)	2 Hours
55 - 64 F (13 - 18 C)	2 1/4 Hours
45 - 54 F (7 - 12 C)	2 3/4 Hours
44 F - (7 C -)	4 + Hours

NOTE: It is highly recommended that all components be conditioned in advance of use to 75 degrees F (24 C). This may take 48 hours. It is to the contractor's benefit to maintain the components at elevated temperatures. At lower temperatures the resin will become difficult to remove from containers and to mix properly.

Clean Up:

Tools and Equipment: Clean with Xylene or similar. Uncured material can be removed with solvent. Cured material can only be removed mechanically. Dispose of in accordance with current applicable local, state and federal regulations. Cured resins are innocuous.

Packaging:

1, 2, & 10-gallon units - 1:1 Ratio

Color:

Clear and colors available.

Storage:

The material should be stored between 40 - 95 degrees F (4 - 35 degrees C) in a cool, dry area away from direct sunlight.

Shelf Life:

Shelf life of properly stored, unopened containers is 24 months. Excessive temperature differential and or high humidity can shorten the shelf life expectancy.

Limitations:

- Minimum substrate application temperature 50 degrees F.
- Do not apply over wet, glistening surface.
- Material is a vapor barrier after cure.
- Do not apply to surfaces exhibiting moisture-vapor transmission.
- Minimum age of concrete is 21 - 28 days.
- Use oven-dried aggregate only.
- Do not thin with solvents.

CAUTION:**READ MSDS PRIOR TO USING THIS PRODUCT.**

Not suitable for asphalt surfaces. Do not use over a curing membrane. Do not apply if precipitation is expected within four hours. Do not dilute. Wear protective gloves and goggles. Avoid prolonged skin contact.

Warranty:

Due to the use of the product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Simply Waterproofing, Inc. or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

Physicals:

Mixing Ratio	1:1
Viscosity	2,000 cps @ 77 degrees F
Gel Time (60 g mass)	25 minutes
Tack Free Time (73 degrees F)	3 to 5 hours
Tensile Properties (ASTM D638)	7 day cure
Tensile Strength	2,800 psi (19.3 MPa)
Tensile Elongation	40%
Bond Strength (ASTM C882)	
2-Day Cure	2,000 psi (13.8 MPa)
14-Day Cure	2,800 psi (19.3 MPa)
Compressive Properties (ASTM D695)	7 day cure
Compressive Strength	5,000 psi (34.5 MPa)
Compressive Modulus	110,000 psi (760 MPa)
Compressive Strength (ASTM 579)	
3-Hour Cure	1,500 psi (10.3 MPa)
24-Hour Cure	5,000 psi (34.5 MPa)
Bond Strength (ASTM C1583/ACI 503R)	300 psi
Flexural Strength (ASTM D790)	3,000 psi (20.9 MPa)
Shrinkage on Cure (ASTM D2566)	0.20%
Thermal Compatibility (ASTM C884)	Pass
Heat Deflection Temperature (ASTM D648)	120 degrees F
Water Absorption (ASTM D570)	0.2% (24-hr.)
Chloride ion Permeability (AASHTO T277)	0.0 coulomb

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