

SPECPOXY COATING

100% Solids High-Build Epoxy Coating



DESCRIPTION

SPECPOXY COATING is a 2-component, high-performance epoxy coating system designed to provide concrete and steel surfaces with excellent abrasion resistance in combination with protection against chemical attack. These outstanding properties are further enhanced by the availability of a selection of colors for superior aesthetic benefits. (Standard Gray, Clear, Red, Beige and Black)

Applications on concrete or steel for SPECPOXY COATING are:

- Food/chemical processing plants
- Auto/truck repair bays
- Warehouse floors
- Manufacturing plants
- Floor restoration projects

FEATURES/BENEFITS

- Provides excellent wear under traffic
- Excellent resistance to a variety of chemicals
- Hardens to a glossy finish
- VOC Compliant, VOC = 0 grams/liter
- Can be applied as a non-slip floor finish
- Available in Gray, Clear and a variety of colors
- No separate primer required

APPEARANCE

SPECPOXY COATING is a 2-component epoxy system consisting of 2 Parts A (resin) & 1 Part B (hardener). This product is available in a Standard Gray, Clear (other colors available upon special order) After placement and curing, the product has a smooth, glossy appearance.

COVERAGE

Coverage rate is approximately 75-125 sq-ft per gallon. Use two coats for best appearance and protection. The concrete surface texture greatly affects coverage rates and final appearance. Additionally, introducing silica sand for slip resistance will reduce coverage rates.

Material Requirements - A two coat application using a coverage rate of 100 sq-ft per gallon per coat, will create a 30 mil coating.

APPLICATION

Concrete Surface Preparation: New Concrete must be a minimum of 28 days old and possess an open surface texture with all curing compounds and sealers removed. The concrete must be clean and sound. All oil, dirt, debris, paint and unsound concrete must be removed. The surface should be prepared mechanically using sandblast, shotblast or scarifier, which will give an open surface profile.

APPLICATION (con't)

Acid etching is acceptable only when mechanical preparation is impractical. The salts left by the acid reaction must be thoroughly removed by pressure washing. Allow the concrete to completely dry. NOTE: Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures. Also, acid etching will not remove oil, grease, sealers and other materials that will interfere with the bond on the surface of the concrete.

Steel Surface Preparation: All metal surfaces to be coated must be free of contaminants such as paint, oil and grease and sand blasted down to white metal.

Joints and Edges: If the floor is subjected to heavy wheel traffic, the edges of the floor should be sawcut 1/4" deep to locked in the edge. Moving joints as in the case of expansion joints should be maintained through the coating. All cracks over 1/16" wide should be filled. Use a 100% solids epoxy mortar to fill wide cracks, joints and keyed edges.

Mixing: All materials should be conditioned to temperature range of 60°F to 90°F. Mix parts A and part B separately for one minute using a drill and mixing prop. For ease of mixing, add 1- Part B to 2- Parts A (not the reverse).

Mix the Part A and Part B together for 3 minutes. The epoxy must be well mixed to ensure proper chemical reaction. **After mixing, place immediately.**

Placement: This product may be applied by notched squeegee or roller. After application, it is suggested the coating be back rolled with a spiked roller to reduce surface imperfections, entrapped air and to improve bond.

Top Coat: If desired, additional coats of this product or another SpecChem product may be applied just after the initial coating has become tack-free. This could be as early as 4 hours, but must be within 18 hours of initial coating placement. The choice of topcoat is selected based upon chemical and wear resistance desired. Contact your local SpecChem for specific recommendations.

CLEAN UP

Clean tools and equipment with solvent such as SpecChem SOLVENT 100, Xylene, toluene, or MEK. Do not allow to harden on equipment.

SPEC CHEM
Solution to Service

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TYPICAL TEST DATA

The following results were developed under laboratory conditions:

Compressive Strength @ 28 days	11,000 psi
Hardness (Shore D)	75-85
Re-coat time	6-18 hours
Suitable for foot traffic	@ 24 hours
Suitable for wheel traffic	@ 72 hours
Dry to touch at 70°F	3-5 hours
Pot life at 70°F,	40-60 min.
Mixing ratio by volume A to B	2 to 1
Total solids content	100%
Dry film thickness @ 100 sq-ft/gal	15 mils/coat
ABRASION RESISTANCE	
Taber Abrader CS-17 wheel with 1,000 gm/500 cycles	30.2 mg loss
CHEMICAL RESISTANCE after 7 day cure	
Acetic Acid, 5%	poor
Alkali	excellent
Ammonia	excellent
Battery Acid	good
Beer	excellent
Bleach	excellent
Brake fluid	good
Ethanol	poor
Ethylene glycol	excellent
Gasoline	excellent
Hydrochloric Acid, 10%	good
MEK	good
Methylene Chloride	poor
MIBK	poor
Nitric acid, 5%	poor
Oil	excellent
Phosphoric Acid, 30%	poor
Salt Water	excellent
Skydrol®	good
Toluene	good
Urine	excellent
Xylene	excellent

Ratings:

Poor = Affected within 24 hours

Good = No affect for 24 hours

Excellent = No affect after 2 weeks

Revised 08/22/2019

LIMITATIONS/PRECAUTIONS

- Store and condition the product indoors at 50°F to 80°F prior to application. Avoid application at air and floor temperatures below 50°F and high humidity conditions.
- Suitable for service temperature from 40F to 90F
- Avoid applications with moisture vapor readings above 4 lbs per sq-ft
- Use in a well ventilated area, keep away from sparks and open flames
- Product may yellow with exposure to strong UV environments
- Epoxy components may cause irritation. Avoid contact with eyes and skin
- Apply only over dry concrete surfaces
- Do not apply over hardened primer or old epoxy without proper surface preparation
- Not recommended over new concrete less than 28 days old
- If HVAC intake ducts will distribute epoxy odor into adjoining occupied areas of the building , care should be taken to block these ventilation vents.

SPECIFICATIONS/COMPLIANCES

SPECPOXY COATING is USDA accepted for use in indirect food applications.

PACKAGING

3 gallon units (2 -1 gal. Part A Resin & 1-gal. Part B Hardener)
15 gallon units (2 - 5 gal pails Part A, 1- 5 gal Part B)

SHELF LIFE

Store SPECPOXY COATING in its original containers and keep tightly closed. Do not allow the accumulation of water, dirt or other contaminants. The shelf life of properly stored SPECPOXY COATING is two years from date of manufacture.

WARRANTY

NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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