INDURON
PROTECTIVE COATINGS
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TECHNICAL DATA

PERMASAFE™ 100 CERAMIC EPOXY

COATING DATA

DESCRIPTION:

A solvent free, immersion grade lining incorporating ceramic pigment into an amine cured epoxy resin for maximum corrosion protection of steel and concrete substrates immersed in sewage or exposed to similar aggressive environments.

PermaSafe™ 100 Ceramic Epoxy:

- High build coating, may be applied to provide up to 50 dry mils per coat.
- Complies with current U.S. EPA National Volatile Organic Compound (VOC) Emission Standards for OTC states effective January 1, 2005 and proposed for national AIM regulations in 2009.
- Performs well in many aggressive corrosive environments including the following:
  - Immersion in neutral, alkaline, and salt solutions.
  - Immersion in waste-water.
  - Immersion in concentrated caustic solutions.
  - Acid fume, splash, and spillage.
  - Immersion in aliphatic petroleum hydrocarbon solvents.

USE:

Use as a protective barrier coating on steel or concrete exposed to sanitary sewage and other aggressive agents. It is also ideal for protecting steel and concrete immersed in fresh, sea and chemically contaminated water.

LIMITATIONS:

Do not use for immersion in concentrated solutions of mineral acids or organic acids. Maximum continuous immersion service temperature – 120°F (49°C). Maximum continuous non-immersion service temperature – 200°F (93 C).

SURFACE PREPARATION:

***Steel (Immersion)* –** SSPC-SP 5 White Metal Blast, minimum 3 mils profile. ***Concrete* –** New concrete must cure for at least 28 days and contain less than 14 percent moisture prior to coating. Remove all surface contaminants, including oils, curing compounds and any compound that will interfere with adhesion of the coating to a concrete substrate. All concrete surfaces shall be made free of voids, cracks and other imperfections using Induron EFS 707 Epoxy Surfacer. For best results, use SSPC-SP 7 Brush Off Blast to clean surface. ***Recoating* –** Multicoat systems may require this product to be recoated with itself. This product does not require scarifying the surface prior to begin recoating with itself for a period of 30 days. Prior to recoating, remove all chalk and/or other surface contaminates. For extended periods of time, SSPC-SP 7 Brush Off Blast cleaning is recommended to clean surface.

COVERAGE:

Theoretical—1,600 ft^2 per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:
15-50 mils per coat.

WET FILM THICKNESS:
15 to 50 mils.

APPLICATION DATA

BLEND RATIO:
One Part PermaSafe™ 100 Part A Base to one part PermaSafe™ 100 Part B Activator.

POT LIFE:
15 minutes @ 70°F

APPLICATION:

Prior to application the material temperature should be equal to or above 70°F.
Airles Spray - Plural component equipment required. Visit www.induron.com for additional information. ***Roll*** – Product may be rolled using natural cover rollers. ***Brush*** – Use natural bristle brush, for small areas use PermaSafe™ Touch-Up Kit.

THINNING:
Not normally required. Use Acetone or MEK for clean up.

CLIMATE:
Use this product only if the substrate temperature and ambient air temperature are above 40°F and is expected not to decrease for at least two hours after application. Also, the substrate must be 5°F above the dew point for a period of two hours after application to avoid condensation occurring on a wet coating. Do not apply PermaSafe™ 100 over wet or frozen surfaces. Care should also be taken with substrate temperatures above 120°F since application properties may vary with higher temperatures.

DRY TIME:
TO HANDLE—Four hours at 80°F. , overnight at lower temperatures.
TO RECOAT—Five hours at 80°F. , overnight at lower temperatures.
TO HOLIDAY TEST -Six hours at 80°F., overnight at lower temperatures
IMMERSION: 72 hrs. @ 60°F or warmer, 7 days below 60°F
Note: Lower temperature, higher film build, and/or poor ventilation will retard dry time.

PHYSICAL DATA:
VOLUME SOLIDS: 100% (mixed)
SOLIDS BY WEIGHT: 100% (mixed)
WEIGHT PER GALLON: 9.69 ± .2 lbs/per gallon
VOLATILE ORGANIC CONTENTS: Combined – 0.0 lbs./gallon
HAZARDOUS AIR POLLUTANTS (HAPS) – 0.0 lbs./gallon
COLOR: Red

SAFETY DATA:
See individual product label for safety and health information. Individual Material Safety Data Sheets are available upon request.