

COATING DATA

DESCRIPTION:

PermaSafe 100 is 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 many other aggressive environments. PermaSafe 100 is a unique and outstanding barrier coating formulated for the protection of steel and concrete in corrosive environments.

PermaSafe™ 100 Ceramic Epoxy

- High build coating that can 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 fumes, splash, and spillage.
 - Immersion in aliphatic petroleum hydrocarbon solvents.

USE:

Use as a protective barrier coating on steel, non-ferrous metals and concrete exposed to sanitary sewage and other aggressive environments. It is ideal for protecting steel and concrete immersed in non-potable water, sea water, brine solutions 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 10/NACE 2, Near-White Metal Blast Cleaning with a minimum 3 mils profile depth. **Concrete** – New concrete must cure for at least 28 days. Verify dryness by testing for moisture per “ASTM D4263 Plastic Sheet Method”. Must be clean, dry, sound and free of all curing compounds, oils, greases or any other contaminants. All concrete surfaces shall be made free of voids, cracks and other imperfections using Induron EFS 707 Epoxy Surfacer or Mortarchem. Prepare the surface per ICRI 310.2 to achieve surface profile to meet a CSP 3-5. **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 contaminants. Cure times exceeding 30 days require a uniform sweep blast with clean abrasives or power tools to impart a surface profile for proper bonding.

COVERAGE:

Theoretical—1,604 ft² 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. **IMPORTANT:** When opening the liquid components you may notice a crust has formed. This is normal and will be easily homogenized when mixed with a power mixing blade.

POT LIFE:

less than 10 minutes @90F, 15 minutes @ 70°F, 30 minutes @50F.

APPLICATION:

Prior to application the material temperature should be brought to 70°F - 80°F.

Airless Spray – Heated 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.

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 possible condensation formation on the 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—3 hours@90F, 6 hours @70F, 12 hours @50F.

TO RECOAT—Five 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 – 0.17 lbs. /gallon or 21g/L

HAZARDOUS AIR POLLUTANTS (HAPS) – 0.0 lbs. /gallon

COLOR: Black

SAFETY DATA:

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