

COATING DATA

DESCRIPTION:

A two-component, high solids, immersion grade cyclo-aliphatic amine epoxy coating formulated for maximum corrosion protection of steel and concrete substrates immersed in sewage or exposed to similar aggressive environments.

PERFORMANCE

PANEL: Blasted Steel

SYSTEM: One Coat CeramaSafe 90 @ 30 mils DFT

TEST	METHOD/CONDITIONS	DURATION	RESULTS
SALT SPRAY	ASTM B 117 (Scribed)	1 Year	No Blisters or Undercutting
Distilled Water Immersion	77°F (25°C)	1 Year	No Blisters or Delamination
20% Sulfuric Acid Immersion	77°F (25°C)	1 Year	No Blisters or Delamination
Pull-Off Adhesion	ASTM 4541		900 psi. avg. 3 trials
Impact Resistance (Direct)	ASTM D 2794		90 in/lbs, No Cracking
Salt Water Immersion	5% Sodium Chloride Solution	1 Year	No Blisters or Delamination

- 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 service above 120°F (49°C) or dry heat above 200°F (93°C). Not recommended for immersion in concentrated solutions of mineral acids or organic acids.

SURFACE PREPARATION:

Steel (Immersion)—SSPC-SP 10 Near White Blast. This product does not require scarifying the surface prior to being recoated with itself if recoated within 7 days. Prior to recoating, remove all surface contaminants. When repairing mechanical damage follow printed repair procedure. **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** – This product does not require scarifying the surface prior to begin recoating with itself for 30 days. Prior to recoating, remove all chalk and/or other surface contaminants. For extended periods of time, SSPC-SP 7 Brush Off Blast cleaning is recommended to clean surface.

COVERAGE:

Theoretical— 1,443 ft² per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

15 - 40 mils per coat. Multiple coats may be used if necessary.

WET FILM THICKNESS:

17.0 – 45 mils

APPLICATION DATA**BLEND RATIO:**

One part CeramaSafe 90 Ceramic Epoxy Activator to one part CeramaSafe 90 Ceramic Epoxy Base by volume. Power agitate until components are thoroughly mixed.

POTLIFE:

One hour at 80°F decreasing with higher temperature.

APPLICATION:

Airless Spray—Use .029 tip; 30 mesh filter; 45:1 Pump ratio at 80-100 psi operating air pressure. **Roll**—Use lambs wool cover. Additional coats may be required to achieve desired film thickness. **Brush**—Use natural bristle brush. Additional coats may be required to achieve desired film thickness.

THINNING:

None required. Clean equipment with K-1034 Reducer.

CLIMATE:

Use this product only if the substrate temperature and ambient air temperature is above 45°F and is expected not to decrease for at least two hours after application. Also, the substrate temperature must be 5°F above the dew point for a period of at least two hours after application to avoid condensation occurring on wet paint.

DRY TIME:

TO HANDLE—10-12 hours at 80°F.

TO RECOAT—50°F or higher, 12 hours; 40°F-50°F, overnight.

NON POTABLE IMMERSION SERVICE—50°F or higher, 7 days with proper ventilation;
40°F-50°F, 14 days with proper ventilation.

Note: High film thickness, low temperature and/or poor ventilation will retard dry time.

PHYSICAL DATA:

VOLUME SOLIDS: 90% ± 2%

SOLIDS BY WEIGHT: 90% ± 2%

WEIGHT PER GALLON: 8.4 ± .2 lbs per gallon (mixed)

VOLATILE ORGANIC CONTENTS:

0.68 lbs/gallon mixed unthinned; 82 grams/liter mixed unthinned

HAZARDOUS AIR POLLUTANTS (HAPS)

.005 lbs/gallon solids mixed unthinned; 0.60 grams/liter solids mixed unthinned

COLOR: Black & Gray

SAFETY DATA:

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