

COATING DATA

DESCRIPTION:

A two-component, high solids, highly cross-linked, chemical and corrosion resistant, modified polyamidoamine epoxy formulated for excellent protection of steel, masonry and non-ferrous metals in corrosive environments. This epoxy uses a specially modified polyamidoamine curing agent which imparts the best properties of both amines and conventional polyamides. For maximum benefit, use as part of a system featuring Perma-Clean II Primer and Perma-Clean II Semi-Gloss. Perma-Clean II may be topcoated with Induron urethanes, fluorourethanes and epoxies. This product meets the requirements of ANSI/AWNA 0102-11 Outside System No.5 for the first and intermediate coat. This product meets the requirements of the Food Safety and Inspection Service of the U. S. Department of Agriculture as chemically acceptable for use in areas where there may be a possibility of incidental food contact.

Perma-Clean II High Gloss Epoxy

- High build coating, may be applied to provide up to 6 dry mils per coat.
- Has complete color flexibility.
- Performs well in many aggressive corrosive environments including the following:
 - Concrete floors.
 - Immersion in neutral, alkaline, and salt solutions.
 - Immersion in water.
 - Immersion in concentrated caustic solutions.
 - Acid fume, splash, and spillage.
 - Immersion in aliphatic petroleum hydrocarbon solvents.

USE:

To protect steel, concrete, masonry, wood or drywall substrates from chemical and corrosion attack. Use in severe environments which include abrasion, moisture, corrosive fumes, chemical contact, and immersion. These corrosive environments include chemical processing plants, bio-pharmaceutical facilities, power plants, offshore oil and gas equipment, laboratories, pulp and paper mills, structural steel, water/wastewater plants and others.

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. Not for potable water.

SURFACE PREPARATION:

Steel (Immersion)—Immersion in water: Provide SSPC-SP 10/NACE 2, Near-White Blast Cleaning and remove all surface contaminants. Other recommended immersion conditions: Provide SSPC-SP 5/NACE 1, White Metal Blast Cleaning. Vacuum after blasting and recoat all blasted area the same day. Prime with Perma-Clean II Primer. *Steel (Non-Immersion)*—For best results, SSPC-SP 6/NACE 3, Commercial Blast Cleaning to remove all mill scale and surface contaminants. Prime with Perma-Clean II Primer, Indurazinc MC-67, or other recommended Induron primers. For rusted steel, prime with Induron Induramastic 85 or E-Bond 100. *Aluminum and Galvanized Steel*—Prime with Induron Vinyl Wash Primer.

Concrete—New concrete must cure for at least 28 days. Verify dryness by testing for moisture per "ASTM 04263 Plastic Sheet Method". Must be clean, dry and sound concrete substrates that are 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, Induron Mortarchem or other approved surface/filler. Prepare the surface per ICRI 310.2 to achieve surface profile to meet a CSP 3-4.

COVERAGE:

Theoretical—962 ft² per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

3.0 to 6.0 mils per coat.

WET FILM THICKNESS:

6.0 to 10.0 mils.

APPLICATION DATA

BLEND RATIO:

One part Perma-Clean II Epoxy Activator to four parts Perma-Clean II Epoxy Base. Power agitate until components are thoroughly mixed. Allow mixed components to stand fifteen minutes prior to application.

POT LIFE: 4 hours @90F, 8 hours @70F, 12 hours @50F, decreasing with higher temperature.

APPLICATION:

Airless Spray—Use .017-.019 tip; 60 mesh filter; 30:1 pump ratio at 80-100 psi operating air pressure.

Conventional Spray—Follow instructions of equipment manufacturer for the application of epoxy paints.

Roll—Use lambswool 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:

If required, thin up to 10% with K-1066 Reducer. Clean equipment with K-1066 Reducer.

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. 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— 5 hours @90F, 10 hours @70F, 18 hours @50F.

TO RECOAT—50°F or higher, over-night; 40°F to 50°F, second day.

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

Note: E-60 Accelerator may be used to increase the normal curing rate of reaction to provide a rapid low temperature cure. See E-60 Technical Data Sheet for more information.

PHYSICAL DATA:

VOLUME SOLIDS: 60% ± 1%

SOLIDS BY WEIGHT: 70% ± 1%

WEIGHT PER GALLON: 9.7 ± .2 lbs per gallon

VOLATILE ORGANIC CONTENTS:

Mixed unthinned - < 2.3 lbs./gallon; < 266 grams/liter

Mixed thinned 10% - < 2.6 lbs./gallon; < 312 grams/liter

HAPS:

Mixed unthinned - 1.7 lbs./gallon solids

Mixed thinned 10% - 2.2 lbs./gallon solids

SAFETY DATA:

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