PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-Epoxy Corrosion Coating

P/N: 020-0065

For Professional Use Only

PRODUCT DESCRIPTION:

ERS-Epoxy Corrosion Coating is a high performance, multi-purpose, surface tolerant, two-component chemically-cured epoxy semi-gloss coating.

RECOMMENDED USES:

For use on properly prepared steel or masonry surfaces including immersion (non-potable water) service. Also for concrete floors, interior primed drywall, plaster, and wood surfaces. Ideal for structural steel, piping, storage tanks, machinery, and equipment in petroleum refineries, pulp and paper mills, chemical and fertilizer plants, and sewage treatment plants. Can also be used in the hard service areas of food processing plants, dairies, schools, restaurants, and general industrial buildings and structures.

Suitable for use on structural surfaces or surfaces where there is a possibility of incidental food contact in commercial food preparation establishments, food processing plants and federally inspected meat and poultry plants. USDA no longer requires or furnishes product certification letters.

SPECIAL QUALIFICATIONS:

Performance alternate for Federal Specifications TT-C-550 and TT-C-545, Mil-P-24441-Type I & II, Mil-C-22750D-Type I, and Mil-P-23377E-Type I, Mil-P-23236B-Type I & IV, Class 2, and Mil-P-24647B. Meets AWWA D102.

ADVANTAGES:

- Exceptional corrosion protection
- Suitable for salt and fresh water immersion
- Low temperature cure to 0°F (-18°C)
- Surface tolerant – abrasive blasting not required in most applications
- Excellent adhesion to tight right
- Good adhesion to damp surfaces
- Self-priming for steel & masonry substrates
- Abrasion & chemical resistance is excellent
- High solids – high film build
- Low VOC

PHYSICAL PROPERTIES:

Color:	Off White, ready mixed and custom colors
Finish:	Semi-gloss
Reduction Solvent:	T-10 Thinner. For application over aged alkyds, use T-5 Thinner or Xylene
Clean-up Solvent:	T-10 Thinner
Weight Per Gallon:	11.0 lbs/gal. (1.3 kg/L) – varies with color
VOC (EPA 24):	2.40 lbs/gal (292 g/L) – varies with color
Solids By Volume (ASTM D 2697 – 7 days):	68%
Theoretical Coverage at 1.0 Mil (25 microns) Dry:	1091 sq.ft./gal. (28.0m^2/L)
Recommended Film Thickness:	4.0 – 8.0 mils (100 – 200 microns) dry – 5.9-11.7 mils (147-293 microns) wet. (Make allowances for loss due to overspray & irregular surfaces.)
Service Temperature Limits:	250°F (121°C) dry

Minimum Dry Time (ASTM D 1640): At 5 mils (125 microns) DFT

Substrate Temperature	20°F (-7°C)	40°F (4°C)	60°F (16°C)	80°F (27°C)
Minimum Recoat	28 hours	11 hours	6 hours	3 hours
Dry Hard	46 hours	18 hours	9 hours	5 hours
Maximum Recoat	30 days	30 days	30 days	30 days

Warning: The above table provides general guidelines only. Always consult the Ecology Technical Department for appropriate recoat windows since the maximum aged recoat time of this product may be significantly shortened or lengthened by a variety of conditions, including, but not limited to humidity, surface temperature, and the use of additives or thinners. The use of accelerators or force curing may shorten the aged recoat of individual coatings. If the maximum aged recoat window is exceeded, please consult the Ecology Technical Department for appropriate recommendations to enhance adhesion. Failure to observe these precautions may result in intercoat delamination.

Shelf Life: Over 24 months at 77°F (25°C) – unopened

Hardness (ASTM D 3363, 7 day cure @ 77°F (25°C): 3H

Mix Ratio By Volume: 4 (base), 1 (converter)

Induction: 15 minutes @ 77°F (25°C)

Pot Life: 4.5 hours @ 77°F (25°C) & 50% R.H.

Adhesion: ASTM D 4541 – Excellent

Salt Spray Resistance: ASTM B 117 – Excellent

Direct Impact Resistance: ASTM D 2794 – Very Good

Abrasion Resistance: ASTM D 4060 – Excellent

Humidity Resistance: ASTM D 2247 – Excellent

Water Immersion: ASTM D 1308 - Excellent

Chemical Resistance: ASTM D 1308 – 24 hour contact – Excellent. Resists splash and spillage of alkalis, salts, moisture, oils, greases, foodstuffs and detergents, 50% Sodium Hydroxide, 28% Ammonia, 5% Trisodium Phosphate, 25% Citric Acid, 25% Lactic Acid, 10% Sulfuric Acid, Crude Oil, 10% Hydrochloric Acid, 20% Tannic Acid, 5% Sodium Chloride, 10% Ammonium Hydroxide, sewage.

LIMITATIONS OF USE: Exterior exposure will cause a color change, early dulling, and loss of gloss, but this does not affect protective properties. Epoxy coatings may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters.

Ecology Roof Systems ®

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