

RiteLiner 100

Novolac Modified DTM 2K Epoxy

General Description:

RiteLiner 100 is a two part 1:1 one coat high build Novolac Modified Epoxy with low VOC ultra-low HAPS, with excellent adhesion designed for direct-to-metal (DTM) applications where excellent corrosion, chemical, and abrasion resistance is required. It is especially suitable for metal tank liner applications requiring excellent resistance to hydrocarbons, alcohols, and petroleum products.

Mixing and Thinning Instructions:

Prepare RiteLiner 100 by mixing RL100A (Part A) 1:1 by volume with RL100B (Part B). Be sure to agitate each component thoroughly before combining them and agitate the mixture. No reduction is necessary. If reducing or thinning is required, contact your Ritek representative for instructions.

Directions for Use:

Surface must be clean, dry, sound, and free of dirt, dust, grease, oils, residue, waxes, water, foreign particles, and any other contaminants that may interfere with coating adhesion and intimate contact with the substrate. Prepare the substrate by abrasive blasting to a profile of 2.0-4.0 mills per NACE SSPC SP10 Near White Metal Blast. Aluminum and galvanized steel to be treated with RITEKS Wash Primer or equivalent. Metal surface must be 5 degrees above the dew point temperature before application.

RL100 is designed to be applied with airless spray @ 3000-4000 PSI using 0.017-0.030 tips. Pot life is 2 hours @ 75°F and is significantly reduced at elevated temperatures.

Performance Data on P. 2

FOR PROFESSIONAL USE ONLY
NOT FOR RESIDENTIAL USE
KEEP OUT OF REACH OF CHILDREN

Typical Mixed Properties

Appearance:	Various
Type:	Novolac Epoxy
Viscosity (25°C):	90-95(KU's)
Specific Gravity (25°C):	1.05-1.15
Density (25°C):	8.75-9.58 lbs/gal
% Solids (by Volume):	80-85%
% Solids (by Weight):	90-95%
VOC:	0.1-0.2 lbs/gal
VOC (less water/exempt):	0.6-0.8 lbs/gal
Flash Point:	-17C (0F)
Gloss:	Semi
Recommended DFT:	8-12 mils
Maximum DFT:	18 mils
Coverage:	1325 ft2 @ 1.0 mil
Dry @ 75°F:	3-4 hrs touch 6-7 hrs handle 72 hrs liner service
Recoat Window:	Within 72 hrs
Mix Ratio:	1:1

Typical properties given do not constitute a supply specification.

Packaging/Storage

RiteLiner 100 is available in one 1-gallon kits, five 5-gallon kits and 55-gallon steel drums.

Store indoors in original, tightly sealed container out of direct sunlight between 40°F (5°C) and 100°F (38°C), 0% to 90% relative humidity. Warranted shelf life is 1 year from date of manufacture (DOM) in original unopened and properly stored container.

Safety, Health and Environmental Info:

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

Avoid contact with skin and use good ventilation. Wear chemically resistant gloves (nitrile are recommended) and chemical safety glasses. If skin contact is made, wash immediately with soap and water. Do not use solvents to clean skin.

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RiteLiner 100

Green Liner Novolac Modified DTM 2K Epoxy

Physical Performance Properties

TEST	TEST METHOD	RESULT
Adhesion	ASTM D3359	5A
Pencil Hardness	ASTM D3363	4H-5H
Abrasion Resistance	ASTM D4060	5000 cycles, 150 mg loss
Bend - Flexibility	ASTM D522	Passes 1.5-inch radius bend
Impact	ASTM D2794	50 in/# Direct
Salt Fog	ASTM B117	3000 hours
Humidity	ASTM 4585	3000 hours
Heat Resistance	NACE SPO302	Dry Continuous 400F Dry Intermittent 500F Immersed Continuous 140F Immersed Intermittent 200F

- **Application Equipment:** Airless Spray & Plural Component
- **Tip:** .017 to .021
- **Pump Pressure:** 3000-4000 PSI
- **Dry:**
Touch 3-4 Hours ASTM D1640 @75 F / Air Dry
Handle 6-7 Hours ASTM D1640 @ 75 F / Air Dry
Force Cured - ½ hour ambient air,
200 F-250 F air temperature for 2hrs,
1/2 hr. cool down (total 3 hrs.)
- **Recoat:** Up to 72 hrs. after Air Dry or Force Cured as outlined.
- **In Service as a liner:**
50 F 7 Days,
75 F 4 Days,
90 F 3 days,
Force Cure 24 hours

Chemical Immersion Resistance: 12 months @ 140F

5% Salt Solution	Excellent
Ethanol & Methanol	Excellent
Ethylene & Propylene Glycol	Excellent
Mineral Spirits & Naphtha	Excellent
Gasoline, Diesel & Kerosene	Excellent
Crude, Mineral & Motor Oil	Excellent
Turpentine	Excellent

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