

Product ID: RCT 100G Liner - Glass Reinforced
Novolac Modified Epoxy DTM

Document Date: 28 May 2018

Product Description & Suggested Uses:

RCT 100G Liner is a two component glass filled Novolac Epoxy designed for Direct to Metal applications where excellent corrosion, chemical and abrasion resistance are required. It is especially suitable for Liner applications with excellent resistance to Hydrocarbons, Alcohols and Petroleum products.

Mixing and Thinning/Reducing Instructions:

Mix RCT 100G Liner 1:1 by volume with RCT 01 1140 AM Hardener. Agitate each component thoroughly before combining and then agitate mixture. No reduction is necessary. If reducing or thinning is required, please contact your Rapid Cure Technologies (RCT) technical service representative for instructions.

Directions for Use :

Surface must be clean, dry, sound and free of dirt, dust, grease, oils, residues, waxes, water, foreign particles, and any other contaminants that may interfere with coating adhesion and intimate contact with substrate. Prepare the substrate by abrasive blasting to a profile of 2.0-4.0 mils per NACE SSPC - SP10. Metal surface must be 5 degrees above the dew point temperature.

RCT 100G Liner is designed to be applied with airless spray @ 3000-4000 psi and 0.017-0.030 tips. Pot life is 2 hours @ 75 degrees and significantly reduced at elevated temperatures.

Clean-up:

Clean all equipment immediately after use with MEK or other RCT approved solvents. Use clean solvent only. In case of spill, absorb and dispose of in accordance with local, State, and/or Federal regulations.

Storage & Shelf Life:

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 12 months from date of manufacture (DOM) in original unopened and properly stored container.

RCT 08 1003 EP

Typical Mixed Properties:

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|-------------------------|---|
| Color | Green, Black, Beige, White & Gray |
| Type | Novolac Epoxy |
| Viscosity (25°C) | 90-95 (KU's) |
| Specific Gravity (25°C) | 1.40-1.45 |
| Density (25°C) | 12.0-12.5 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 | -17°C (0°F) |
| Gloss | Semi |
| Recommended DFT | 8-12 mils (200-300 um) |
| Maximum DFT | 18 mils (450 um) |
| Coverage | 1325 ft ² @ 1.0 mil |
| Dry @ 75 degrees F | 3-4 hrs touch 6-7 hrs handle 72 hrs in service as a Liner |
| Recoat | Within 72 hrs |
| Potlife | 2 hours @ 75°F |

Packaging:

RCT 100G Liner is available in one 1-gallon cans, five 5-gallon pails and 55-gallon steel drums. For additional packaging options, please contact your local Rapid Cure Technologies representative.

Safety Information:

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. Refer to Safety Data Sheet for further safety and handling information.

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

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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 – 400°F Dry Intermittent – 500°F Immersed Continuous- 180°F Immersed Intermittent – 200°F |
| Thermal Shock Resistance w/ Crude Oil | NACE SPO302 | 10 cycles of 24 hours @ 325°F followed by 24 hours @ -40°F No adhesion loss, cracking or flaking |

Chemical Immersion Resistance: 12 months @ 140F

| | |
|----------------------------------|-----------|
| 5% Salt Solution | Excellent |
| Ethanol & Methanol | Excellent |
| Ethylene & Propylene Glycol | Excellent |
| Mineral Spirits & Naptha | Excellent |
| Gasoline, Diesel & Kerosene | Excellent |
| Crude, Mineral & Motor Oil | Excellent |
| Turpentine | Excellent |
| Hydrochloric Acid Sol'n (Acidic) | Good |
| Sodium Hydroxide Sol'n (Caustic) | Good |
| Hydrosulfuric Acid Sol'n | Excellent |
| Ammonia | Excellent |
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