RAPID CURE TECHNOLOGIES

Technical Data Sheet

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.

Typical Mixed Properties:

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

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 – 400F Dry Intermittent – 500F Immersed Continuous- 140F Immersed Intermittent – 200F
Thermal Shock Resistance w/ Crude Oil	NACE SPO302	10 cycles of 24 hours @ 325F followed by 24 hours @ -40F 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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