RAPID CURE TECHNOLOGIES

## **Technical Data Sheet**

Product ID: RCT 100 Liner – Novolac Modified Epoxy DTM

Document Date: 10 June 2019

#### Product Description & Suggested Uses:

RCT 100 Liner is a two component Novolac Epoxy designed for Direct to Metal applications where excellent corrosion and chemical 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 100 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 100 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, Beige, Gray, Black, White
Туре	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	-15°C (5°F)
Gloss	Full
Recommended DFT	10-12 mils (250-300 um)
Maximum DFT	18 mils (450 um)
Coverage	1325 ft <sup>2</sup> @ 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 100 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

RCT 08 1004 EP

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### **Physical Performance Properties:**

Test	Test	Result
	Method	
Adhesion	ASTM	5A
	D3359	
Pencil	ASTM	4H-5H
Hardness	D3363	
Abrasion	ASTM	1000 cycles, 100 mg loss
resistance	D4060	
Bend –	ASTM	Passes 1.5 inch radius bend
Flexibility	D522	
Impact	ASTM	50 in/# Direct
	D2794	
Salt Fog	ASTM	3000 hours
	B117	
Humidity	ASTM	3000 hours
	4585	
Heat	NACE	Dry Continuous – 400F
Resistance	SPO302	Dry Intermittent – 500F
		Immersed Continuous- 140F
		Immersed Intermittent – 200F
Thermal	NACE	10 cycles of 24 hours @ 325F
Shock	SPO302	followed by 24 hours @ -40F
Resistance		
w/ Crude		No adhesion loss, cracking or
Oil		flaking

### Chemical Immersion Resistance: 12 months @ 140F

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

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