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Technical Data Sheet RF 20 CURING AGENT

Description

RF 20 CURING AGENT is an accelerated version of RF 78 curing agent. It provides faster thin film cure and reduced moisture sensitivity during cure. Chemical resistance is excellent against most acids and bases. Because it's fast cure speed, it is quite exothermic during cure. Its use is limited to small castings, adhesives, coatings.

FDA Regulatory Status

RF 20 may be used in compliance with FDA regulation 21 CFR175.105 for food-packaging adhesive applications. However, the responsibility for determining the overall compliance with the applicable regulations is with the company manufacturing the final product.

ADVANTAGES

RF 20 provides the following advantages over many other types of curing agents:

- Fast cure
- Very good overall chemical resistance
- Very good physical properties

APPLICATIONS

- *Adhesives, Patch Repair Kits*
- *Coatings, Laminating*
- Electrical Potting & Encapsulation:

Usage level

Mix ratio is fixed and should follow within 10%, the recommended use level. See "Handling Properties"

Technical Data Sheet (Continued)
RF 20 CURING AGENT

Handling Properties

Property	RF 20 CURING AGENT
Appearance:	Clear Resinous liquid
Color, Gardner	1
Viscosity @ 77°F (25 °C)	1500
Specific Gravity, @ 77°F (25 °C)	1.07
Mix Ratio – Parts by Weight or Volume (*RF 5000 or RF 4010 : RF 20)	100 : 25
Viscosity with RF 5000, cps	< 5000
Viscosity with RF 4010, cps	< 3500
Gel Time, 150g mix @ 77°F (25 °C)	~ 12 minutes
Thin Film Set Time @ 77°F (25 °C)	3.0 hours
Cure Schedule	2 - 7 days at R.T. or 2-3 Hours @ 150° - 180°F
Shelf Life from date of shipment (DOS) @ 77°F (25°C)	12 months
HMIS Classification	3-Health, 1-Flammability, 0-Physical Hazard
Flash Point	>200°F
Flammable Under 100°F	No
Combustible 100-200°F	No
Corrosive	Yes
Freight Class	2

* RF 5000 is a standard Bis A Epoxy Resin (DGEBA)
 RF 4010 is a modified, low viscosity Bis A Epoxy Resin

Typical Performance DATA

Cure: 7 days at 25°C (77°F)

Property with RF 5000 or RF 4010	RF 20 CURING AGENT
Heat Deflection Temp (HDT), °F (°C) ASTM D648-264 psi	140°F (98°C)
Shore D Hardness	80-90
Lap Shear, psi	> 2500
Tensile Strength (psi)	> 5,000
Tensile Modulus (K psi)	> 250
Elongation, %	~ 2.0

Storage Life

12 months from the date of shipment from E.V. Roberts in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

Handling Precautions

Refer to the Material Safety Data Sheet for RF 20 CURING AGENT

DANGER	FIRST-AID
<ul style="list-style-type: none">• May cause severe irritation.• Do not get in eyes, on skin or clothing.• Do not inhale vapors.• Wear rubber gloves & aprons.• Use with adequate ventilation.• Wash thoroughly after handling.	<ul style="list-style-type: none">• <u>Eyes</u> – Immediately flush eyes with plenty of water for at least 15 minutes. <i>Get medical attention.</i>• <u>Skin</u> - Wash immediately with soap and water.• <u>Clothing</u> - Remove clothing and wash before reuse.
<p><u>For Industrial Use ONLY</u> <u>Keep Container Closed</u> <u>Do Not Reuse this Container</u></p>	

SAFETY INFORMATION: PROTECT THE EYES FROM EXPOSURE TO THIS PRODUCT. RF 20 CURING AGENT a modified polyamine curing agent. In case of eye contact, flush with plenty of water for 15 minutes. Get medical attention immediately. Keep the material off the skin. In case of skin contamination, wash with a mild soap and water. Do not use solvents to remove adhesive from the skin. Wash before using the rest room, eating, or smoking. Read and follow the instructions in the material safety data sheet supplied with this material.

Notice to Buyer: Exclusion of Warranties and Limitation of Liability

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