

10-3039

Epoxy Adhesive System

DESCRIPTION:

10-3039 is a high viscosity, room temperature curing, two component epoxy. The 10-3039 Epoxy System meets the Food and Drug Administration (FDA) regulations permitting use in "indirect" food contact applications. The raw materials used in the products comply with the FDA regulations of Title 21 Code of Federal Regulations under Sections 175.105 and 175.300.

FEATURES:

- Excellent adhesion
- Excellent chemical and corrosion resistance
- Excellent electrical insulation

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps	
10-3039RWH Resin	175,000
10-3039CTR Catalyst	800,000
Mixed	200,000
Mix Ratio (Resin: Catalyst)	
By weight	100:40
Color	White
Hardness, Shore D	83
Operating Temperature Range, °C	-40 to +130
Specific Gravity, 25°C	
10-3039RWH Resin	1.28
10-3039CTR Catalyst	0.99
Pot Time, 100-gram mass, 25°C	90 minutes
Compressive Strength, psi	33,000
Elastic Modulus Compressive, psi	2.8×10^5
Flexural Strength, psi	13,000
Flexural Modulus, psi	5.0×10^4
Tensile Strength, psi	8,600
Tensile Modulus, psi	3.8×10^5
Tensile Elongation, %	3.7

CHEMICAL RESISTANCE:

Percent weight gain:

Water

24 Hours 0.12

7 Days 0.46

5% Acetic Acid

24 Hours 0.58

7 Days 0.72

50% Xylene / 50% Isopropanol

24 Hours 2.89

7 Days .07

Specimens were cured at 25°C for 24 hours plus 2 hours at 100°C. Cured samples were immersed at 23°C.

INSTRUCTIONS FOR USE:

1. Thoroughly mix epoxy resin and curing agent according to mix ratio as provided.
 - a) By weight 100:40
2. 10-3039 has a 90-minute pot life at room temperature.
3. Apply mixed material and follow one of the cure schedules:
 - a) 25°C 24 hours
 - b) 65°C 1 hour
 - c) 105°C 15 minutes

PREPARATION OF SURFACES:

Surfaces must be clean and grease free. Adhesion can be substantially increased by abrading the surfaces to be bonded with emery cloth, sandpaper, carbide grinding tools, sand blasting, etc. A roughened, porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the epoxy adhesive mixture.

FDA COMPLIANCE:

Epoxies, Etc. does not warranty that these products would be suitable under applicable FDA regulations for any use.

The responsibility for determining the overall compliance with applicable FDA food additive/contact regulations is with the company manufacturing the final finished product and/or the person placing that product in food contact.

SAFETY, STORAGE, AND HANDLING:

Please refer to the Safety Data Sheet for the most current safety and handling information. Read the SDS before using these products.

The shelf life is 12 months in the original sealed container when stored between 10 to 25°C. Store away from excessive heat and humidity.

AVAILABILITY:

10-3039 is available in 1 gallon containers.



IMPORTANT:

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