



MP54750

MP54750 is a low viscosity polyamine epoxy. Designed for metals and plastics bonding, this product is also ideal for highway and bridge deck repairs, potting, casting, and encapsulation, synthetic flooring systems, maintenance coatings, and tank/pipe linings. This product has good chemical, corrosion, and water resistance.

Technology / Base	Epoxy
Type of Product	Structural Adhesive
Components	Two Component
Curing	Room Temperature (secondary thermal cure)
Appearance / Color	Amber
Consistency	Liquid

Features and Benefits

- Excellent Adhesion Properties
- Excellent Bonding to Metals, Coatings, and Most Plastics
- Excellent Chemical Resistance
- Suitable for Cartridge and MMD Dispensing Equipment
- Excellent Thermal Performance
- 100% Reactive
- Room Temperature Cure
- 1:1 volume mix product for easy meter or static mix of application

Technical Data

Rheology	Value	Condition/Method
Viscosity - Part A	13,000 cPs	at 25°C
Viscosity - Part B	13,000 cPs	at 25°C
Viscosity - Mixed	13,000 cPs	at 25°C
Uncured Material Characteristics		
Specific Gravity - Part A		
Specific Gravity - Part B		
Specific Gravity - Mix	1.07	
Volume Mix Ratio	1 to 1	
Weight Mix Ratio	55 to 45	
Pot Life	2 hours	at 25°C
Gel Time		100 gram
Handling Time		100 gram
Full Cure @ 23°C	24 to 72 hours	
Full Cure @ 66°C		
Shelf Life	12 months unopened	
Cured Mechanical Properties		
Hardness	82 Shore D	ASTM D2240
Tensile Strength	51.7 MPa (7500 psi)	ASTM D638
Elongation at Break	7.2%	ASTM D638
Overlap Shear Strength		
Aluminum, Acid Etched at 25°C		ASTM D1002, 25°C 50% RH
Operating Temperature	-40°C to 150°C (-40°F to 300°F)	
Cured Electrical Properties		
Dielectric Constant	3.5 at 25°C, 1MHz	ASTM D150
Dielectric Strength		
Volume Resistivity		



General Instructions

Surfaces to be bonded must be clean, dry and free of other contaminants. Bring both components to room temperature prior to mixing. Measure out specified amounts of parts A and B and stir (without introducing bubbles) until homogenous or use a static mixing nozzle. Apply the uniform mixture to both surfaces. Allow to cure while being held in place with light clamping.

Specifications and Approvals

Handling and Clean-Up

See SDS for handling and clean-up information.

Storage

Product should be stored in a cool dry place out of direct sunlight. The shelf life is from date of manufacture. Shelf life is based on the products being stored properly at temperatures between 12°C and 25°C. Exposure to temperatures above 25°C will reduce the shelf life. This product should not be frozen.

Use Note

This product is designed for thin bond line applications. The rapid cure of this product will result in entrapment of CO₂ gas in thicker sections. Other than aesthetic concerns, this phenomenon will not adversely affect the functionality of this adhesive.

Safety and Disposal

See SDS for

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