Technical Data Sheet

4/13/2018



5 Minute® Epoxy

Description: A rapid-curing, general purpose adhesive/encapsulant.

Intended Use: Bonds metals, fabrics, ceramics, glass, wood, and concrete (in combinations)

Product 100% reactive, no solvents features: Good solvent resistance

Bonds metals, fabrics, wood, and concrete

Limitations: None

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

Cured 7 days @ 75° F

Adhesive Tensile Lap Shear[GBS] 1,900 psi @ 0.005" bondline
Dielectric Strength 490 volts/mils
Gap Fill Good

Impact Resistance 5.5 ft.lb./in.(2)
Service Temperature Dry, -40°F to 200°F
Shore Hardness 85 Shore D

Solids by Volume 100

Specific Volume 25.1 in.[3)/lb.

Tensile Elongation 1%
Tpeel 2-3 pli

Uncured

 Color
 Light Amber

 Fixture Time
 10-15 min. @ 72°F

 Full Cure
 12 hr. @ 72°F

 Functional Cure
 3/4 - 1 hr. @ 72°F

Mix Ratio by Volume 1:1
Mix Ratio by Weight 1:1

Mixed Density 9.17 lbs./gal.: 1.10 gm/cc

Mixed Viscosity 10,000 cps

Working Time 3-6 min. (28 gm @ 72°F)

TESTS CONDUCTED

Adhesive Tensile Shear ASTM D 1002 Dielectric Strength, volts/mil ASTM D 149 Cured Hardness Shore D ASTM D 2240

Cured Density ASTM D 792

Surface Preparation:

Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and increase the bond strength.

Mixing Instructions:

---- Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths. ----

25 ML DEV-TUBE

- 1. Squeeze material into a small container the size of an ashtray.
- 2. Using mixing stick included on Dev-tube handle, vigorously mix components for one (1) minute.
- 3. Immediately apply to substrate.

50 ML/400ML/490 ML CARTRIDGES

- 1. Attach cartridge to Mark V ™ [50ml] 400ml manual or pneumatic dispensing systems.
- 2. Open tip.
- 3. Burp cartridge by squeezing out some material until both sides are uniform (ensures no air bubbles are present during mixing).
- 4. Attach mix nozzle to end of cartridge.
- 5. Apply to substrate.

Application Instructions:

- 1. Apply mixed epoxy directly to one surface in an even film or as a bead.
- 2. Assemble with mating part within recommended working time.

3. Apply firm pressure between mating parts to minimize any gap and ensure good contact (a small fillet of epoxy should flow out the edges to display adequate gap fill.)

For very large gaps:

- 1. Apply epoxy to both surfaces
- 2. Spread to cover entire area OR make a bead pattern to allow flow throughout the joint

Let bonded assemblies stand for recommended functional cure time prior to handling.

CAPABILITIES:

Can withstand processing forces Do not drop, shock load, or heavily load

Storage: Store in a cool, dry place.

Compliances: None

Chemical Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F)

Acetic (Dilute) 10%	Poor
Acetone	Poor
Ammonia	Poor
Corn Oil	Excellent
Cutting Oil	Excellent
Ethanol	Poor
Gasoline (Unleaded)	Poor
Glycols/Antifreeze	Fair

Hydrochloric 10%	Poor
Isopropanol	Poor
Kerosene	Excellent
Methyl Ethyl Ketone	Poor
Mineral Spirits	Excellent
Motor Oil	Excellent
Sodium Hydroxide 10%	Poor
Sulfuric 10%	Poor

Precautions: Please refer to the appropriate safety data sheet (SDS) prior to using this product.

For technical assistance, please call 1-855-489-7262

FOR INDUSTRIAL USE ONLY

Warranty: ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and

application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

Order 14210 2.5 oz. Information: 14630 9 lb.

DA051 400 ml cartridge 14250 25 ml Dev-Tube™ 14270 50 ml cartridge

14200 15 oz.