

5 Minute™ Epoxy

Description:	A rapid-curing, general purpose adhesive/encapsulant.							
Intended Use:	Industrial Use: Bonds metals, fabrics, ceramics, glass, wood, and concrete (in combinations)							
Features:	100% reactive, no solvents, Good Solvent Resistance, Bonds metals, fabrics, wood, and concrete							
Limitations:	Suitability of product is determined by the end user for their application and process.							
Typical Physical Properties:	Technical data should be considered Cured 7 Days @ 75°F (24°C) Adhesive Lap Shear (GBS) Dielectric Strength Hardness Impact Resistance Service Temperature Solids by Volume Specific Volume Tensile Elongation T-Peel Uncured Properties @ 72°F (23°C) Color Working Time Fixture Time Functional Cure Full Cure Mix Ratio by Volume	representative or typical only and should no Typical Values 1,900 psi (13.1 MPa) 490 volts/mil (19.3 kV/mm) 85 Shore D 5.5 ft-lb/in ² (11.56 kj/m ²) Dry -40°F - 200°F (-40°C - 93°C) 100% 25.1 in ³ /lb. (0.99 cm ³ /g) 1% 2-3 pli (0.35-0.53 N/mm) Light Amber 3-6 minutes 10-15 minutes 0.75-1 hours 12 hours 1:1	not be used for specification purposes. Standard Tests Tensile Lap ShearASTM D1002 Dielectric Strength, volts/mil ASTM D 149 Cured Hardness Shore D ASTM D 2240					
	Mix Ratio by Weight Mixed Density Mixed Viscosity	1:1 9.17 lb/gal (1.10 g/cm ³) 9,000-11,000 cP						
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. Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths.							
Mixing Instructions:	 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:	 Apply mixed epoxy directly to one surface in an even film or as a bead. Assemble with mating part within recommended working time. 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.						
	<u>CAPABILITIES:</u> Can withstand processing forces Do not drop, shock load, or heavily load						
Storage:	Store in a cool, dry place.						
Compliances:	None						
Chamical	Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)						
Chemical Resistance:	Acetic 10% (Dilute)	Poor Poor	Hydrochloric 10%	Poor	1		
Resistance.		Poor		Poor	4		
	Acetone	Poor	Isopropanol Kerosene	Excellent	4		
	Ammonia				4		
	Corn Oil	Excellent Excellent	Methyl Ethyl Ketone	Poor Excellent	4		
	Cutting Oil Ethanol	Poor	Mineral Spirits Motor Oil	Excellent	4		
	Gasoline (Unleaded)	Poor	Sodium Hydroxide 10%	Poor	4		
	Glycol/Antifreeze	Fair	Sulfuric 10%	Poor	4		
	Glycol/Antineeze	1 dii	Sulfulle 10%	FUUI	1		
Precations: Warranty:	FOR INDUSTRIAL USE ONLY: Please refer to the appropriate <u>Saftey</u> <u>Data</u> <u>Sheet prior</u> to using this product. 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.						
Order Information:	14210 2.5 oz. 14630 9 lb. DA051 400 ml cartridge 14250 25 ml Dev-Tube™ 14270 50 ml cartridge 14200 15 oz.						
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