



None

Technical Data Sheet

10/6/2010

HP 250

Description: High performance epoxy with high shear strength and impact toughness for structural assembly applications.

Intended Use: Bonds metals, FRP/SMC composites, phenolics, stainless steel, aluminum, vinyl esters, nylon, PVC, PC, styrenics, wood, and rigid plastics.

Product Non-corrosive/outstanding chemical resistance Excellent salt spray durability features:

Limitations:

Typical

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

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Physical Properties:	Cured 7 days @ 75° F Adhesive Tensile Lap Shear[GBS] Dielectric Strength Gap Fill Impact Resistance Service Temperature Shore Hardness Solids by Volume Specific Volume Tensile Elongation Tpeel Uncured Color	3,200 psi @ 0.010" bondline 490 volts/mils Excellent 148 in-Ibs -67 °F to 250 °F 78 Shore D 100 25.5 in.(3) /lb. 25% 35-40 pli Straw	Tests Conducted TESTS CONDUCTED Cured Hardness Shore D ASTM D 2240 Adhesive Tensile Shear ASTM D 1002 T-Peel Strength ASTM D 1876				
	Fixture Time	6 hrs. @ 72 °F					
	Full Cure	7 days					
	Functional Cure	24 hrs. @ 72°F					
	Mix Ratio by Volume	•					
	Mixed Density 9.00 lbs/gal.: 1.08 gm/cc						
	Mixed Viscosity 105,000 cps						
	ViscosityResin: 120,000 cps; Hardener: 75,000 cpsWorking Time65 min. @ 72 °F						
		65 mm. @ 72 F					
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-TUBE1. 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. 						

- Attach mix nozzle to end of cartridge.
- 5. Apply to substrate.

Application

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.					
	-CURE SCHEDULE- 7 days @ 25 °c. For ultimate chemical and thermal resistance, allow parts to cure overnight at room temperature, then follow with 2 hours of 80 ° C exposure.					
	CAPABILITIES: Can withstand processing force Do not drop, shock load, or hea					
Storage:	Store in a cool, dry place.					
Compliances:	None					
Chemical	Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75 F)					
Resistance:	Acetic (Dilute) 10%	Excellent	Motor Oil	Excellent		
	Ammonia	Excellent	Sodium Hydroxide 10%	Very good		
	Cutting Oil	Excellent	Sodium Hypochlorite	Excellent		
	Ethanol	Very good	Sulfuric 10%	Very good		
	Gasoline (Unleaded)	Poor				
	Hydrochloric 10%	Excellent				
	Isopropanol	Very good				
	Mineral Spirits	Excellent				
Precautions:	Please refer to the appropriate For technical assistance, plea FOR INDUSTRIAL USE ON	ase call 1-800-933-8266	t (MSDS) prior to using this product.			
Warranty:	Devcon 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 Devcon makes no representations or warranties of any kind concerning this data.					
Order Information:	14315 50 ml Dev-Pak 14415 400 ml cartridge					