

5 Minute® Epoxy Gel

None

Good solvent resistance

Fills gaps to .250 inches Non-sagging adhesive

Description: Thixotropic/non-migrating gel adhesive with excellent gap-filling properties.

Intended Use: Bonding metal, ceramic, wood and vertical surface where gap-filling is needed.

Product features:

Typical

Limitations:

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		TESTS CONDUCTED			
Properties:	Adhesive Tensile Lap Shear[GBS]	2,500 psi @ 0.010" bondline	Adhesive Tensile Shear ASTM D 1002			
	Dielectric Strength	440 volts/mils	Cured Density ASTM D 792			
	Gap Fill	Excellent	Dielectric Strength, volts/mil ASTM D 149			
	Impact Resistance	6.5 ft.lb./in(2)	Compressive Strength ASTM D 695 Cured Hardness Shore D ASTM D 2240			
	Service Temperature	-40 °F to 200 °F	Cured Hardness Shore D ASTM D 2240			
	Shore Hardness	80 Shore D				
	Solids by Volume	100				
	Specific Volume	23.7 in[3]/lb.				
	Tensile Elongation	1%				
	Tpeel	2-3 pli				
	Uncured					
	Color	Opaque				
	Fixture Time	10-15 min. @ 72°F				
	Full Cure	12 hrs.				
	Functional Cure	3/4-1 hr. @ 72 ℉				
	Mix Ratio by Volume	1:1				
	Mix Ratio by Weight	1:1				
	Mixed Density	9.75 lbs/gal.: 1.17 gm/cc				
	Mixed Viscosity	Gel				
	Working Time	4-7 min. [28 gm @ 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	Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths					
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.					
	2 Immodiately apply to substrate					

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 1. Apply mixed epoxy directly to one surface in an even film or as a bead. Instructions: 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	mical Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75 °F)					
Resistance:	Acetic (Dilute) 10%	Poor	Hydrochloric 10%	Poor		
	Acetone	Poor	Isopropanol	Poor		
	Ammonia	Poor	Kerosene	Excellent		
	Corn Oil	Excellent	Methyl Ethyl Ketone	Poor		
	Cutting Oil	Excellent	Mineral Spirits	Excellent		
	Ethanol	Poor	Motor Oil	Excellent		
	Gasoline (Unleaded)	Excellent	Sodium Hydroxide 10%	Poor		
	Glycols/Antifreeze	Fair	Sulfuric 10%	Poor		
Precautions:	Please refer to the appropriate material safety data sheet (MSDS) prior to using this product. For technical assistance, please call 1-800-933-8266 FOR INDUSTRIAL USE ONLY					
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:	14240 25 ml DevTube 14265 50 ml Dev-Pak DA052 400 ml cartridge					

Distributed by: All-Spec Industries Wilmington, NC www.all-spec.com

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