



A brand of ITW Polymers Adhesives North America

# 5 Minute® Epoxy Gel

**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:**  
**Good solvent resistance**  
**Fills gaps to .250 inches**  
**Non-sagging adhesive**

**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**

<b>Adhesive Tensile Lap Shear[GBS]</b>	<b>2,500 psi @ 0.010" bondline</b>
<b>Dielectric Strength</b>	<b>440 volts/mils</b>
<b>Gap Fill</b>	<b>Excellent</b>
<b>Impact Resistance</b>	<b>6.5 ft.lb./in(2)</b>
<b>Service Temperature</b>	<b>-40 °F to 200 °F</b>
<b>Shore Hardness</b>	<b>80 Shore D</b>
<b>Solids by Volume</b>	<b>100</b>
<b>Specific Volume</b>	<b>23.7 in[3]/lb.</b>
<b>Tensile Elongation</b>	<b>5%</b>
<b>Tpeel</b>	<b>2-3 pli</b>

**TESTS CONDUCTED**

Adhesive Tensile Shear ASTM D 1002  
Cured Density ASTM D 792  
Dielectric Strength, volts/mil ASTM D 149  
Compressive Strength ASTM D 695  
Cured Hardness Shore D ASTM D 2240

**Uncured**

<b>Color</b>	<b>Opaque</b>
<b>Fixture Time</b>	<b>10-15 min. @ 72°F</b>
<b>Full Cure</b>	<b>48 hrs.</b>
<b>Functional Cure</b>	<b>1.5 hr. @ 72°F</b>
<b>Mix Ratio by Volume</b>	<b>1:1</b>
<b>Mix Ratio by Weight</b>	<b>1:1</b>
<b>Mixed Density</b>	<b>9.75 lbs/gal.: 1.17 gm/cc</b>
<b>Mixed Viscosity</b>	<b>Gel</b>
<b>Working Time</b>	<b>4-7 min. [28 gm @ 72°F]</b>

**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	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 Dev-Tube™  
14265 50 ml cartridge  
DA052 400 ml cartridge