

Chem-Set Minute® Epoxy Gel

4/13/2018

| Description: | Thixotropic/non-migrating gel adhesive with excellent gap-filling properties. | | | | | |
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| Intended Use: | Bonding metal, ceramic, wood and vertical surface where gap-filling is needed. Good solvent resistance Fills gaps to .250 inches Non-sagging adhesive | | | | | |
| Product features: | | | | | | |
| Limitations: | None | | | | | |
| Typical Physical Properties: | Technical data should be considered repr 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 District Color Fixture Time Full Cure Functional Cure Mix Ratio by Volume Mix Ratio by Volume Mix Ratio by Weight Mixed Density Mixed Viscosity Working Time | resentative or typical only and should 2,500 psi @ 0.010" bondline 440 volts/mils Excellent 6.5 ft.lb./in(2) -40°F to 200°F 80 Shore D 100 23.7 in[3]/lb. 5% 2-3 pli Opaque 10-15 min. @ 72°F 48 hrs. 1.5 hr. @ 72°F 1:1 1:1 9.75 lbs/gal.: 1.17 gm/cc Gel 4-7 min. [28 gm @ 72°F] | not be used for specification purposes. 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 | | | |
| 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 Squeeze material into a small container the size of an ashtray. Using mixing stick included on Dev-tube handle, vigorously mix components for one (1) minute. Immediately apply to substrate. 50 ML/400ML/490 ML CARTRIDGES Attach cartridge to Chemical Concepts [50ml] 400ml manual or pneumatic dispensing systems. Open tip. Burp cartridge by squeezing out some material until both sides are uniform (ensures no air bubbles are present during mixing). Attach mix nozzle to end of cartridge. Apply to substrate. | | | | | |
| Application Instructions: | Apply mixed epoxy directly to one surfa Assemble with mating part within record | | | | | |

| | 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.) | | | | | |
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| | 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 | 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) | Poor | Sodium Hydroxide 10% | Poor | | |
| | Glycols/Antifreeze | Fair | Sulfuric 10% | Poor | | |
| Precautions: | Please refer to the appropriate safety data sheet (SDS) prior to using this product. For technical assistance, please call 1-800-220-1966. FOR INDUSTRIAL USE ONLY | | | | | |
| Warranty: | Chemical Concepts, Inc. 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. Chemical Concepts, Inc. makes no representations or warranties of any kind concerning this data. | | | | | |
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