



2 Ton Epoxy®

Description: Extremely strong, medium-cure, water-resistant clear adhesive that will self-level after application.

Intended Use: Bonding parts in a structural environment or potting electronic components and assemblies

Product features:
Cures without shrinking
Cures at room temperature
Good impact resistance
Produces strong, rigid bond on metal, ceramics, wood, concrete, glass, or combinations

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

T-peel	2-3 pli
Impact Resistance	6.5 ft.-lb./in.(2)
Tensile Elongation	1%
Shore Hardness	83 Shore D
Gap-Fill	Good
Dielectric Strength	600 volts/mil
% Solids by Volume	100
Adhesive Tensile Lap Shear[GBS]	2,250 psi @ 0.010" bondline
Compression Strength	11,000 psi
Specific Volume	25.2 in.(3)/lb.

TESTS CONDUCTED

Thermal Conductivity ASTM C 177
Dielectric Strength, volts/mil ASTM D 149
Compressive Strength ASTM D 695
Cured Hardness Shore D ASTM D 2240
Adhesive Tensile Shear ASTM D 1002

Uncured

Color	Clear
Mixed Viscosity	8,000 cps
Mix Ratio by Volume	1:1
Mix Ratio by Weight	1:1
Mixed Density	9.17 lbs/gal.: 1.10 gm/cc
Working Time	8-12 min. (28 gm @ 72°F)
Fixture Time	30-35 min. @ 72°F
Functional Cure	2 hrs. @ 72°F
Full Cure	12 hrs.
Service Temperature	Dry, -40°F to 200°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-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 5 dispensing system.
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

Full bond strength is reached in 16 hours.

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) @ 75F)

Acetic (Dilute) 10%	Poor	Hydrochloric 10%	Poor
Acetone	Fair	Isopropanol	Poor
Ammonia	Very good	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%	Very good
Glycols/Antifreeze	Excellent	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:

14260 50 ml Dev-Pak
14355 400 ml cartridge
DA 039 10 gal white
DA 040 100 gal white
DA 048 100 gal black
14310 25 ml DevTube
14360 9 lb.

Distributed by:

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