



# THE EUCLID CHEMICAL COMPANY

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## EUCOPOXY INJECTION RESIN

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### STRUCTURAL BONDING ADHESIVE

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**EUCOPOXY INJECTION RESIN** is a 100% reactive, two component material designed as a moisture insensitive adhesive for numerous injection and sealing needs. This high modulus material is formulated as a super low viscosity for ease of use in penetrating deep into thin cracks.

#### PRIMARY APPLICATIONS

- Permanent bonding of structural damage
- Parking structures
- Bridge structures
- Marine structures
- Retaining walls
- Earthquake damage
- Vertical and overhead applications

#### FEATURES/BENEFITS

- Excellent adhesive for pressure injection of fine cracks
- Moisture insensitive for bond to dry or damp surfaces
- Provides a tough, weather resistant seal for porous concrete
- Penetrates deep into concrete cracks and fissures
- Formulated in a 2 to 1 mixing ratio for use with most injection equipment

#### PACKAGING

EUCOPOXY INJECTION RESIN is packaged in 3 gal (11.4 liter) and 1 gal (3.8 liter) units.  
Shelf life is 2 years in original, unopened package.

#### TECHNICAL INFORMATION

##### **Typical Engineering Data**

##### **Ultimate tensile strength**

ASTM D638 9,000 psi (62 MPa)

##### **Tensile elongation at break**

ASTM D638 3.5%

##### **Shear bond strength**

ASTM C882 3,800 psi (26 MPa)

##### **Tensile modulus of elasticity**

ASTM D638 0.46 x 10<sup>6</sup> psi (3172 MPa)

##### **Shore D hardness**

ASTM D2240 85

##### **Flexural strength**

ASTM D790 14,000 psi (97 MPa)

##### **Viscosity**

220 cps at 75°F (24°C)

##### **Gel Time**

1 gal (3.8 liter) unit 26 min.

**Mix Ratio:** Part A to Part B — 2 to 1 volume

##### **Compressive Strength - ASTM D695**

1 day	14,000 psi (97 MPa)
3 days	18,200 psi (126 MPa)
7 days	20,000 psi (138 MPa)
14 days	22,000 psi (152 MPa)

#### DIRECTIONS FOR USE

**Crack Injection-EUCOPOXY INJECTION RESIN** can be gravity fed or pressure injected into horizontal cracks. Vertical and overhead cracks must be pressure injected. Insert one way polyethylene valves or ports into drill hole at the face of the crack. Areas around the entry port and the crack between ports should be sealed with EUCO #452 Gel or EUCO #620 Gel. Inject the neat material with an epoxy injection machine or other mechanical means. Make sure that injection equipment is properly set for a 2 to 1 mixing ratio (Part A to Part B) by volume.

**Mixing**-All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing, add the part B to the part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction.

**Crack Healing**-After mixing, pour or squeegee epoxy into cracks and allow to seep in. Continue to apply material until crack is full.

#### **CLEAN-UP**

Clean tools and equipment with solvent such as EUCO SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

#### **PRECAUTIONS / LIMITATIONS**

- This product is primarily intended as an adhesive. While use as a coating is allowed, better performance may be expected from the TUFCOAT or EUCOTHANE product line.
- This product may vary in color and may yellow and chalk in prolonged exposure to sunlight.
- Bring material as close to 70°F (21°C) as possible prior to usage. Store in room temperature environment 24 hours prior to use. Do not heat with an open flame.
- Epoxy components may cause irritation; avoid contact with skin and eyes.
- Always wear protective clothing (rubber gloves, eye protection, etc...) when using product.

Form Eucopoly Injection Resin-3.97

**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.