THE EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD • Cleveland, OH 44110
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596
www.euclidchemical.com

EUCO 800

✕ENG.SPECS ◆CATALOG INDEX
◆MSDS ◆SECTION INDEX
✕FRENCH ◆PRINT
✕SPANISH ◆EXIT CATALOG

SEMI-RIGID INDUSTRIAL FLOOR JOINT FILLER

EUCO 800 is a two component, 100% solids semi-rigid epoxy for filling contraction (control) and construction joints in industrial concrete floors. This product is designed with greater elongation properties, which may reduce the expected separation between joint filler and concrete when the joint filler is installed with significant concrete shrinkage still to occur. This joint filler supports the joint edges and reduces spalling of the edges caused by wheel traffic. EUCO 800 has been designed for use in compliance with ACI 302, Section 4.10 recommendations for epoxy joint fillers used in sawcut/control joints. This product also protects against water intrusion in the joint and provides satisfactory bond to the concrete.

PRIMARY APPLICATIONS

- Interior applications
- Concrete construction & control joints
- Crack filler repair for old floors
- Industrial and commercial floors
- Formulated for ACI-302 Class 6, 7,8 and 9 Floors
- Excellent wear and durability

FEATURES / BENEFITS

- Semi-rigid formula improves performance where slight movement is expected
- Extended pot life for longer working time in war weather and for larger jobs.
- V.O.C. compliant - 100% solids system
- Tough performance reduces floor joint repairs and maintenance
- Available in selected color formulations for use with colored dry shake floor hardeners

SPECIFICATIONS / COMPLIANCES

- EUCO 800 is designed to comply with ACI 302, Section 5.12, Joint Fillers
- Available for U.S.D.A. approval

Appearance- EUCO 800 is a two part epoxy product consisting of a Part A (resin) and a Part B (hardener). The product is pigmented gray. After placement and curing, the product has a smooth, glossy appearance.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Pot life @ 73°F (23°C) ..... 50 Minutes
Working Time @ 73°F (23°C) ..... 90 Minutes
Compressive Strength ASTM D-638
7 Day ..... 3,000 psi (20.8 MPa)
Tensile Strength ASTM D-638 .. 650 psi (4.5 MPa)
Elongation ASTM D 638 ..... 110%
Water Absorption ASTM D-570 ..... < 3.0%
Shore A Hardness ASTM D-2240 90
Shore D Hardness ASTM D-2240 50
Bond Strength ASTM C-882 ..... 1,200 psi (8.3 MPa)
Shelf Life: ..... 2 years in unopened container

CHEMICAL RESISTANCE

Alkalies	excellent
Ammonia	good
Battery Acid	poor
Beer	excellent
Bleach	good
Brake Fluid	poor
Ethanol	poor
Ethylene Glycol	good
Gasoline	good
Hydrochloric Acid (10%)	good
MEK	poor
Methylene Chloride	poor
Oil	excellent
Salt Water	excellent
Skydrol	poor
Toluene	.poor
Urine	excellent
Xylene	poor

Ratings: Poor-affected within 24 hours; Good-no effect for 24 hours; Excellent-no effect after 2 weeks

PACKAGING / YIELD

EUCO 800 is a two part epoxy packaged in 2 gal (7.6 liter) kits which contain both the hardener and the resin. The premeasured mix ratio is 1:1. A two gallon (7.6 liter) kit yields 462 in^3 (7,570 cm^3) of product. EUCO 800 is also available in 10 gal (37.9 liter) kits for use on large projects in machine placement applications.

DIRECTIONS FOR USE

Surface Preparation- The joint edges must be clean and sound. All oil, dirt, debris, paint and any other material that may be a bond breaker must be removed. All joint facings must possess an open surface texture with all curing compounds and sealers removed.

If filling floor cracks, the cracks should be routed out and cleaned before filling. Ideally, all edges will be squared. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Joint Backing- The Euclid Chemical Company recommends full depth of the joint or crack be filled with EUCO 800 for proper load transfer. EUCO 800 requires sufficient joint sidewall area contact to function properly. Avoid the use of backer rod, sand or other fill material for the purpose of reducing volume. Sand or other material may be used to seal the crack at the bottom of the joint. However, if a substantial portion of the joint is filled with inert material or if backer rod is used, EUCO 800 must be placed at a 1" (25 mm) minimum depth.

Priming- EUCO 800 does not require a primer before application.

Mixing- EUCO 800 is a two part product and requires mixing. Pre-mix each part separately before combining the materials. Pour all of the Part B hardener into the Part A resin and mix with a mechanical mixer and prop for 2-3 minutes. Make sure that the sides of the can are scraped to assure that all of the resin and hardener are thoroughly mixed.

Placement- After the liquids are thoroughly mixed, pour the mixed material into the joint, filling it approximately 2/3 its full depth. Allow the joint filler to settle and then complete filling **within 5 hours** to the level of the floor.

Coverage/Estimating- The following table gives guidelines on theoretical material estimates in linear feet/gallon (linear meters/liters)

	Joint Depth		
	1.5" (38 mm)	2" (51 mm)	2.5" (63 mm)
Joint Width			
3/16"(4.8 mm)	68" (5.5 m)	51" (4.2 m)	41" (3.2 m)
1/4" (6.4 mm)	51" (4.2 m)	38" (3.2 m)	30" (2.4 m)
3/8" (9.5 mm)	34" (2.6 m)	25" (2.1 m)	20" (1.6 m)

Finishing/Shaving-Joints should be overfilled during placement. Cut flush with a razor knife or ground flush with the floor within 24 hours after placement. At temperatures of 70°F (21°C) product can be shaved in 5-7 hours. Temperatures of 50°F (10°C) will take 10-12 hours. If EUCO 800 has completely hardened, a heat flame may be used to soften the material for easier removal.

Curing- EUCO 800 requires no special curing instructions. The product will cure within 24 hours @ 70°F (21°C). Lower temperatures will slow the curing rate.

CLEAN-UP

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

PRECAUTIONS / LIMITATIONS

- **Based on ACI 302 recommendations, joint fillers should be applied as late as possible after construction to allow for minimal additional slab shrinkage. Consult ACI 302 comments regarding concrete shrinkage, joint filling and user expectations.**
- Proper joint design will affect performance.
- Interior use only.
- Cool temperatures extend working times and cure schedules. Warmer temperatures reduce the times.
- Avoid application at air and floor temperatures below 50°F (10°C).
- Store indoors at 45°-110°F (7°- 43°C).
- To ensure proper adhesion, joint edges must be thoroughly cleaned prior to filling, particularly if a floor sealer has been applied.
- For proper adhesion, concrete must be a minimum of 28 days old.
- Product is designed for use in joints with minimal movement.
- Product may discolor in direct or artificial light.
- Do not use in large movement (expansion/isolation) joints.