



THE EUCLID CHEMICAL COMPANY

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EUCO 700

SEMI-RIGID INDUSTRIAL FLOOR JOINT FILLER

EUCO 700 is a two component, semi-rigid epoxy for filling control and construction joints in industrial concrete floors. This product supports the joint edges and reduces spalling of the edges caused by wheel traffic. EUCO 700 has been designed for use in compliance with ACI 302, Section 4.10 recommendations for epoxy joint fillers used in sawcut/control joints.

PRIMARY APPLICATIONS

- Concrete construction & control joints
- Crack filler repair for old floors
- Industrial and commercial floors
- Interior applications

FEATURES/BENEFITS

- Semi-rigid formula that allows for limited temperature and humidity movement of concrete
- Tough performance reduces floor joint repairs and maintenance
- Available in several formulations for widest practical applications
- Suitable for filling cracks in older floors to reduce the rate of deterioration
- Available in selected color formulations for use with colored dry shake floor hardeners

SPECIFICATIONS / COMPLIANCES

- EUCO 700 is a semi-rigid joint filler designed to comply with ACI 302 recommendations regarding control and construction joints.
- Available for U.S.D.A. approval

PACKAGING / YIELD

EUCO 700 is a two part epoxy product packaged in 1 gal (3.8 liter) kits which contain both the hardener and the resin. The premeasured mix ratio is 1:1. A 1 gal (3.8 liter) unit yields 231 in³ (3785 cm³) of product.

EUCO 700 is also available in 10 gal (37.9 liter) kits for use on large projects in machine placement applications.

TECHNICAL INFORMATION

Typical Engineering Data

Pot Life at 75°F (24°C):	15 minutes
Tack free time @75°F (24°C):	12 hours
Compressive Strength , ASTM D-695	
@72 hours	3000 psi (20.7 MPa)
Tensile Strength , ASTM D-638	
7 days	690 psi (4.6 MPa)
Elongation , ASTM D-638	
7 days	55%
Water Absorption , ASTM D-570	
72 hour immersion	1.1%
Shore D Hardness ASTM D-2240	
7 days	55
Shore A Hardness	> 100
Chemical Resistance 72 hours at 75°F (24°C)	
CaCl ₂ (10%)	Excellent
Caustic (10%)	Excellent
Muriatic Acid (10%)	Excellent

Shelf Life: 1 year in original, unopened package.

EUCO 700 will accept normal traffic in 24 hours if curing temperature is @70°F (21°C) and @50% relative humidity. Expect complete cure within one week.

EUCO 700 is also available in this formulation:

700 GEL: Standard setting, thick paste consistency material for special applications; this material is not designed for vertical/overhead applications.

Properties of EUCO 700 GEL are similar to those of standard EUCO 700.

Appearance-EUCO 700 is a two part epoxy product. The Part A is pigmented gray. The Part B is cream colored. When the two parts are mixed together, the result is a gray color similar to concrete. The user should expect some batch to batch variability in color.

EUCO 700 is also available on special order in colors for use with colored dry shake floor hardener applications.

DIRECTIONS FOR USE

Surface Preparation-The joint must be clean and sound. All oil, dirt, debris, paint and any other material that may be a bond breaker must be removed. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

All joint facings must possess an open surface texture with all curing compounds and sealers removed.

If this product will be used for filling floor cracks, the cracks should be routed out and cleaned before filling. Ideally, all edges will be squared.

Joint Backing-The Euclid Chemical Company recommends the full depth of the joint or crack be filled with EUCO 700 for proper load transfer. EUCO 700 requires sufficient joint sidewall area contact to function properly. Joints should be filled full depth. 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 700 must be placed at a 1" (25 mm) minimum depth.

Priming-EUCO 700 does not require a primer before application.

Mixing-EUCO 700 is a two part product and requires mixing. Premix 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 1 hour** to the level of the floor. Use all material rapidly due to the short pot life.

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

	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-Joints should be overfilled during placement. Cut flush with a razor knife or ground flush with the floor within 24 hours after placement. If EUCO 700 has completely hardened, a heat flame may be used to soften the material for easier removal.

Curing-EUCO 700 requires no special curing instructions. The product will cure within 24 hours of placement @70°F (21°C). Lower temperatures will slow the curing rate.

CLEAN-UP

Tools, equipment and general clean-up can be done with EUCO SOLVENT, xylol or toluene.

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.**
- Do not use EUCO 700 as an expansion joint sealant.
- Use only at temperatures above 40°F (4°C).
- Contact surfaces must be clean and dry.
- Proper joint design will affect performance.
- 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.



Euco 700 3.03

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