



EUCLID CHEMICAL

# EUCO 700

## SEMI-RIGID INDUSTRIAL FLOOR JOINT FILLER

### DESCRIPTION

**EUCO 700** is a two-component, 100% solids 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 recommendations for epoxy joint fillers used in control and construction joints. EUCO 700 is available in Standard Gray and a Neutral Base, that can be colored with EUCLID UNIVERSAL COLOR PACKS; available in 33 standard colors.

### PRIMARY APPLICATIONS

- Concrete construction & control joints
- Crack filling in concrete 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
- 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
- 33 colors available using color packs

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

<b>Pot Life @ 75°F (24°C)</b> .....	15 minutes	<b>Elongation</b> , ASTM D638	
<b>Tack-Free Time @75°F (24°C)</b> .....	12 hours	7 days .....	55%
<b>Compressive Strength</b> , ASTM D695		<b>Water Absorption</b> , ASTM D570	
72 hours .....	3000 psi (20.7 MPa)	72 hour immersion .....	1.1%
<b>Tensile Strength</b> , ASTM D638		<b>Shore D Hardness</b> ASTM D2240	
7 days.....	690 psi (4.6 MPa)	7 days.....	55
		<b>Shore A Hardness</b> .....	> 100

**Chemical Resistance:** Contact The Euclid Chemical Company for complete chemical resistance information. EUCO 700 will accept normal traffic in 24 hours if ambient conditions are at 70°F (21°C) and 50% relative humidity. Expect complete cure within one week.

**Appearance:** EUCO 700 is a two-part epoxy available in Standard Gray and in a Neutral Base, that can be colored using EUCLID UNIVERSAL COLOR PACKS, which are available in 33 standard colors. See the EUCLID UNIVERSAL COLOR CHART for available colors.

### PACKAGING/YIELD

EUCO 700 is a two part epoxy product packaged in 2 gal (7.6 L) kits which contain both the hardener and the resin. The premeasured mix ratio is 1:1. A 2 gal (7.6 L) unit yields 463 in<sup>3</sup> (7570 cm<sup>3</sup>) of product. EUCO 700 is also available in 10 gal (37.9 L) and 100 gal (379 L) kits for use on large projects in machine placement applications.

### SHELF LIFE

1 year in original, unopened containers

### SPECIFICATIONS/COMPLIANCES

EUCO 700 is a semi-rigid joint filler designed to comply with ACI 302 recommendations regarding control and construction joints.

Canadian Food Inspection Agency Compliant

## COVERAGE

1 gallon (3.78 L) of EUCO 700 yields 231 in<sup>3</sup> (3,785 cm<sup>3</sup>) of material.

The following table gives rough guidelines on estimating the amount of material needed. These numbers represent the length of joint that can be filled with 1 gallon (3.78 L) of material, based on the joints' width and depth.

Joint Width	Joint Depth				
	1"	1.5"	2"	2.5"	3"
3/32" (2.4 mm)	205 ft (62.5 m)	136 ft (41.5 m)	102 ft (31.1 m)	82 ft (25.0 m)	68 ft (20.7 m)
1/8" (3.2 mm)	154 ft (46.9 m)	102 ft (31.1 m)	77 ft (23.5 m)	61 ft (18.6 m)	51 ft (15.5 m)
3/16" (4.8 mm)	102 ft (31.1 m)	68 ft (20.7 m)	51 ft (15.5 m)	41 ft (12.5 m)	34 ft (10.4 m)
1/4" (6.4 mm)	77 ft (23.5 m)	51 ft (15.5 m)	38 ft (11.6 m)	30 ft (9.1 m)	25 ft (7.6 m)
3/8" (9.5 mm)	51 ft (15.5 m)	34 ft (10.4 m)	25 ft (7.6 m)	20 ft (6.1 m)	17 ft (5.2 m)
1/2" (12.7 mm)	38 ft (11.6 m)	25 ft (7.6 m)	19 ft (5.8 m)	15 ft (4.6 m)	12 ft (3.7 m)

## 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. 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 crack edges should be squared. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

**Joint Backing:** Avoid the use of backer rod, sand or other fill material for the purpose of reducing volume. The full depth of the joint or crack must be filled with EUCO 700 for proper load transfer.

**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 to 3 minutes. Make sure that the sides of the can are scraped to assure that all of the resin and hardener are thoroughly mixed.

**Euclid Universal Color Packs:** EUCO 700 can be colored using 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 2 gal (7.6 L) unit and 2 EUCLID UNIVERSAL COLOR PACKS (EUCO Pack) per 10 gal (37.85 L) unit. Prior to mixing the unit together, stir the appropriate amount of colors packs into the part "A" side of the product until it is fully dispersed. Proceed with mixing as stated above. EUCLID UNIVERSAL COLOR PACKS are available in 33 standard colors, see EUCLID UNIVERSAL COLOR CHART for available colors.

**Placement:** After the liquids are thoroughly mixed, pour or gun 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.

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

**Curing:** EUCO 700 will cure within 24 hours of placement @70°F (21°C). Lower temperatures will slow the curing rate.

## CLEAN-UP

Clean tools and equipment before the epoxy has cured with a solvent such as acetone or xylene. Hardened EUCO 700 will require mechanical abrasion for removal.

## PRECAUTIONS/LIMITATIONS

- **Based on ACI 302 recommendations, joint fillers should be installed as late as possible after construction to allow for minimal additional slab shrinkage. Consult ACI 302 regarding concrete shrinkage, joint filling and user expectations.**
- 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 2 gal (7.6 L) unit and 2 EUCLID UNIVERSAL COLOR PACKS (EUCO Pack) per 10 gal (37.85 L) unit. EUCO 700 is not UV stable. If aesthetics are a major issue, consider using EUCO QWIKJOINT UVR polyurea joint filler.
- 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.
- To ensure proper adhesion, joint edges must be thoroughly cleaned prior to filling, particularly if a floor sealer or liquid densifier has been applied.
- Product may discolor in direct or strong UV indoor or outdoor light.
- In all cases, consult the Safety Data Sheet before use.

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