

JOINT FILLERS & SEALANTS

Master Format #: 07 92 16

EUCO 700

SEMI-RIGID INDUSTRIAL FLOOR JOINT FILLER



EUCLID CHEMICAL

PACKAGING

- 10 gal (37.9 L) unit
 - Code: 042A-10 (Std Gray)
 - Code: 042ANB-10 (Neutral Base)
 - Code: 042S-10 (Colors)
- 2 gal (7.6 L) unit
 - Code: 042A-02 (Std Gray)

APPROXIMATE COVERAGE

1 gallon (3.79 L) of EUCO 700 yields 231 in³ (3785 cm³) of material.

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.

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Complies with ACI 302 performance recommendations regarding control and construction joint fillers.
- Canadian Food Inspection Agency Compliant
- CDPH Standard Method v1.2, 2017
- USGBC LEED Version 4, BD&C, ID&C
- ANSI/GBI 01, Green Building Assessment Protocol
- The WELL Building Standard

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.

PRODUCT CHARACTERISTICS

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

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.

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.

PRIMARY APPLICATIONS

- Concrete construction & control joints
- Crack filling in concrete floors
- Industrial and commercial floors
- Interior applications

COVERAGE

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 (3.79 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)	

TECHNICAL INFORMATION

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

Test Method	Test Property	Values
-	Mix Ratio (A:B by volume)	1:1
-	Pot Life @ 75 °F (24 °C)	15 minutes
-	Tack-Free Time @ 75 °F (24 °C)	12 hours
ASTM D695	Compressive Strength	3,000 psi (20.7 MPa)
ASTM D638	Tensile Strength	690 psi (4.8 MPa)
ASTM D638	Elongation 7 days	55%
ASTM D570	Water Absorption 72 hour immersion	1.1%
ASTM D2240	Shore D Hardness 7 days	55
ASTM D2240	Shore A Hardness	> 100

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DIRECTIONS FOR USE

Surface Preparation: All joints to be filled must be clean and dry. All oil, dirt, debris, curing compounds, sealers, paint, coatings, and any other material that may be a bond breaker must be removed. All joint facings must possess an open surface texture. Simply raking debris out of the joint with hand tools is not sufficient. Mechanically cleaning the joints by recutting with a dustless concrete saw, using a wire wheel abrader, or sandblasting are preferred methods. The final step in cleaning must be the complete removal of all residue by vacuuming or by use of oil-free compressed air. If this product will be used for filling floor cracks, the cracks must be routed out and cleaned before filling. For proper installation, all edges must be squared off.

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.

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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