



E³ - DEEP POUR

EPOXY GROUT FOR DEEP POUR APPLICATIONS

EUCLID CHEMICAL

DESCRIPTION

E³ -DEEP POUR is a high strength epoxy grout designed for grouting machine and equipment bases of all types. Formulated to be used in deep placements, E³ -DEEP POUR provides maximum bearing for bases of numerous configurations.

PRIMARY APPLICATIONS

- Large/deep volume precision placements
- Rebuilding foundations, bases and columns
- Vibration dampening for equipment
- Tanks, turbines and housings
- Pour-backs for post tension projects

FEATURES / BENEFITS

- Low exotherm for large volume applications
- Expansive/non-shrink
- Excellent bearing
- Variable fill ratio
- Excellent bond to foundation and base plate
- Suitable in deep placements
- Long working time

TECHNICAL INFORMATION

The following results were determined at 21°C laboratory conditions:

PROPERTY	Standard Unit			High Flow Mix		
	1 DAY	7 DAYS	28 DAYS	1 DAY	7 DAYS	28 DAYS
Compressive Strength ASTM C 579	76 MPa	94 MPa	98 MPa	77 MPa	96 MPa	99 MPa
Creep ASTM C 1181	2.8 MPa @ 60°C		N/A	2.8 MPa @ 60°C		N/A
Flexural Strength ASTM C 580	22.0 MPa	24.0 MPa	27.0 MPa	23.0 MPa	25.0 MPa	29.0 MPa
Tensile Strength ASTM C 307	12.0 MPa	14.0 MPa	14.0 MPa	12.0 MPa	14.0 MPa	14.0 MPa
Bond to Concrete ASTM C 882	N/A	23.0 MPa	25.0 MPa	N/A	24.0 MPa	26.0 MPa
Chemical Resistance	Excellent resistance to most industrial chemicals					
Maximum Thickness Per Lift	45 CM			23 CM		
Effective Bearing Area ASTM C 1339	>95%			>95%		
FLDOT Peak Exotherm 12" x 12" x 3"	36.7°C			45.0°C		
Working Time	60 min			70 min		

GROUTS

E³ - DEEP POUR

MASTER FORMAT #:
03 63 00

PACKAGING

E³ -DEEP POUR is packaged in 0.010 m³ kits. To mix to a high flow consistency, remove 3 Kg of aggregate.

	Resin, Part A:	Hardener, Part B:	Aggregate, filler Part C:	Yield:
Standard Unit:	3.2 KG	1.43 KG	16.0 KG	0.010m ³
High Flow Mix:	3.2 KG	1.43 KG	13.0 KG	0.009m ³

SHELF LIFE

2 years in original, unopened package.

DIRECTIONS FOR USE

Surface Preparation: Concrete must be a minimum of 28 days old. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using suitable equipment to give a surface profile, exposing the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all dust and residue with a pressure washer and then vacuum until all water is gone. **Acid etching is acceptable only when mechanical preparation is impractical.** It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry. **Note:** Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures. All concrete must possess an open surface texture with all curing compounds and sealers removed. **Base Plate Preparation:** Abrasive blast metal base plates to a commercial finish (SSPCSP6) to enhance bond. Apply grout immediately to prevent re-oxidizing.

Form Preparation: Forms must be liquid tight to prevent leakage. They must be strong, well braced, and set slightly higher than the bottom of the base plate. To facilitate stripping, the forms should be coated with two applications of a paste wax or each form wrapped with polyethylene.

Anchor Bolt Holes and Blockouts: Holes and blockouts should be cleaned of all dust, dirt and debris and allowed to dry. If the sides are smooth, roughen the hole with a stiff bristle wire brush or with a rotary brush hammer if access permits.

Mixing: Slowly mix parts A & B (resin & hardener) for 2 minutes using a drill and mixing prop in a clean mixing pail. Add the Part B to the Part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction. Do not whip air into the epoxy while mixing. After the epoxy has been mixed, directly pour the resin into a horizontal shaft mortar mixer. Add the part C (aggregate) to the mixture, one bag at a time and mix thoroughly for 2 to 3 minutes, until the aggregate is completely wetted out. Place immediately.

Placement: Pour into anchor bolt holes and blockouts through a funnel or directly if space permits. When grouting plates, pour grout into the headbox and allow to flow under the plate, working from one side only. Straps preplaced under the plate will aid in working the grout across. Grout should be placed at a minimum of 25 mm thick and a maximum of 46 cm per lift when placed in a large mass. Note: Bring all E³ -DEEP POUR materials as well as the foundation and baseplate as close to 23°C as possible. Cold temperatures will significantly reduce flow characteristics and will increase the difficulty of baseplate grouting. Higher temperatures will increase initial flow but cut down on working time. **Curing:** E³ -Deep Pour does not require any special curing procedures.

Finish: If a smooth finish is desired, the surface of the grout may be brushed and troweled with a light application of EUCO SOLVENT.

CLEAN-UP

Tools and mixer may be cleaned with soap and water

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PRECAUTIONS/LIMITATIONS

- Wear proper PPE (Personal Protective Equipment) when handling epoxies.
- Do not use over frost covered or frozen concrete.
- Store material at room temperature before use.
- Grout should be placed at ambient temperatures of 10°C to 32°C.
- Rate of strength gain is significantly affected at temperature extremes.
- In all cases, consult the Safety Data Sheet before use.

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