



E³-FLOWABLE RESIN

HIGH FLOW EPOXY GROUT

DESCRIPTION

E³-FLOWABLE RESIN is a two-component, high flow, high strength, expansive epoxy resin designed for large plates and narrow configurations where flowability is critical.

PRIMARY APPLICATIONS

- Large or wide plates requiring precision grouting
- Machinery, equipment or structural elements needing maximum bearing support
- Rail grouting, keyways and inverted baseplates
- Narrow clearance situations including anchor bolts
- Precision alignment of generators, compressors, electric motors and pumps

FEATURES / BENEFITS

- Positive effective bearing
- High early strengths, fast return to service
- User friendly placing characteristics
- >95% effective bearing
- High chemical resistance
- Clean tools with soap and water

TECHNICAL INFORMATION

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

PROPERTY	STANDARD UNIT		
	1 DAY	7 DAYS	28 DAYS
Compressive Strength ASTM C 579 50 mm cubes	69.4 MPa	83.3 MPa	86.8 MPa
Flexural Strength ASTM C 580	27.0 MPa	27.7 MPa	30.0 MPa
Tensile Strength ASTM C 307	10.4 MPa	11.8 MPa	13.2 MPa
Bond Strength ASTM C 882	N/A	20.8 MPa	24.3 MPa
Effective Bearing Area ASTM C 1339	>95%		
Working Time ICRI PROTOCOL	95 Minutes at 23°C		
Chemical Resistance	Excellent resistance to most industrial chemicals		
Abrasion Resistance	Greater than concrete		

GROUTS

E³-FLOWABLE RESIN

MASTER FORMAT #:
03 63 00

PACKAGING

E3 -FLOWABLE RESIN is packaged in Part A, resin: 20.0 kg, Part B, hardener: 20.0 kg.

Mixing Ratio : Part A, resin 70% and Part B, Hardener 30%

SHELF LIFE

2 YEARS IN ORIGINAL, UNOPENED PACKAGE

DIRECTIONS FOR USE

Surface Preparation: New concrete must be a minimum of 28 days old. The concrete must be clean and rough. 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 of at least a CSP 5-7 in accordance with ICRI Guideline 310.2, exposing the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all dust and residue with a vacuum cleaner followed by pressure washing. Then, vacuum all water up and allow to dry completely. 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.

Form Preparation: Forms must be liquid tight to prevent leakage, and they should be strong and well braced. To facilitate stripping, the forms should be coated with two applications of paste wax or each piece wrapped with polyethylene.

Anchor Bolt Holes and Blockouts: Holes and blockouts must 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.

Mixing: Mix parts A & B (resin & hardener) separately using a drill and mixing prop. Then, pour the Part B into the Part A container. Mix for 2-3 minutes, scraping the bottom and sides of the container, to ensure proper chemical reaction. Do not whip air into the epoxy while mixing. After the epoxy has been mixed, directly pour all of the mixed resin into a horizontal shaft mortar mixer. Add aggregate to the mixture one bag at a time and mix 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. Straps pre-placed under the plate will aid in working the grout across. Grout can be placed at a minimum of 12 mm thick to a maximum of 150 mm per lift when placed in a large mass. **Note:** Bring all **E3 -FLOWABLE RESIN** materials as well as 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 reduce working time.

Curing: **E3 -FLOWABLE RESIN** does not require 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.

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CLEAN UP

Tools and mixer may be cleaned with soap and water

PRECAUTIONS / LIMITATIONS

- Wear proper PPE when handling epoxies.
- Do not use over frost covered or frozen concrete.
- Store all materials at 23°C for at least 24 hours 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.
- Do not remove, or add more aggregate, than stated on this technical data sheet.
- In all cases, consult the Safety Data Sheet before use.

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