



EUCLID CHEMICAL

EUCO TREMIE GROUT

NON-SHRINK UNDERWATER GROUT

DESCRIPTION

EUCO TREMIE GROUT is specially designed for use in underwater grouting applications. This highly flowable, cement based, non-shrink grout remains in a cohesive, well blended mix when placed or pumped in off-shore concrete repairs.

PRIMARY APPLICATIONS

- Underwater grouting
- Pier supports
- Underwater concrete structures
- Off-shore rigging

FEATURES/BENEFITS

- Non-shrink for positive, secure support
- Contains an anti-washout additive to ensure cohesiveness underwater
- No added chlorides
- Highly flowable for easy mixing & pumping
- Rapid strength gain for early support

TECHNICAL INFORMATION

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

PROPERTY	RESULT @ 72°F (22°C)	RESULT @ 50°F (10°C)
Compressive Strength ASTM C 109 Modified see ASTM C 1107 Section 11.5	1 day: 3,200 psi (22 MPa) 3 days: 4,800 psi (33 MPa) 7 days: 6,100 psi (42 MPa) 28 days: 9,000 psi (62 MPa)	1 day: 2,500 psi (17 MPa) 3 days: 3,900 psi (27 MPa) 7 days: 5,200 psi (36 MPa) 28 days: 8,300 psi (57 MPa)
Volume Change ASTM C 1090 & CRD C 621	3 days: +0.04% 7 days: +0.06% 14 days: +0.06% 28 days: +0.08%	3 days: +0.04% 14 days: +0.08% 28 days: +0.08%
Setting Time ASTM C 191	Initial Set: 5 hours Final Set: 7 hours	Initial Set: 12 hours Final Set: 18 hours

Appearance: EUCO TREMIE GROUT is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

PACKAGING/YIELD

EUCO TREMIE GROUT is packaged in 50 lb (22.7 kg) bags. Yield is approximately 0.45 ft³ (.013 m³) of flowable grout when mixed with 1.2 gal (4.5 L) of water. (Also available in bulk bags).

SHELF LIFE

6 months in original, unopened package.

SPECIFICATIONS/COMPLIANCES

- Meets the requirements of CRD C 621, Corps of Engineers specification for non-shrink grout
- Shows positive expansion when tested in accordance with ASTM Specification C 1090, Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout
- Meets the performance requirements of ASTM C 1107, combination volume adjusting grout standard specification for packaged, dry, hydraulic-cement grout (non-shrink)

DIRECTIONS FOR USE

Surface Preparation: All concrete surfaces should be clean, sound and free of surface scaling and any material which may interfere with bond.

Mixing: Approximately 1.2 gal (4.5 L) of water will be required to produce a flowable consistency. EUCO TREMIE GROUT should not be placed at a fluid consistency. Mechanically mix for a minimum of 3 minutes then place the grout. For placements where the clearance is beyond 5" (12.7 cm), EUCO TREMIE GROUT may be extended with up to 20 lb (9.1 kg) of 3/8" (9.5 mm) pea gravel per 50 lb (22.7 kg) bag.

Placing: After mixing, grout may be pumped into place. EUCO TREMIE GROUT should be placed continuously.

Curing: No special curing is required when product is placed under water. Air exposed surfaces may be coated with a curing compound if hot, dry conditions exist.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- Store materials in a dry place.
- Do not add admixtures or fluidifiers.
- Keep exposed portions of the grout from freezing until a minimum strength of 4,000 psi (27.6 MPa) is reached.
- Rate of strength gain is significantly affected at temperature extremes.
- In all cases, consult the Safety Data Sheet before use.

Rev. 01.19

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.