

GROUTS

Master Format #: 03 62 13

EUCO ROCK

RAPID-SETTING FLOWABLE GROUT



EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) pails
Code: 035A 05

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.48 ft³ (0.014 m³)
per unit when mixed with 1.5 gal (5.7 L)
of potable water.

CLEAN UP

Clean tools and equipment with water
before the material hardens.

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- ASTM C1107, "Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Non-Shrink)"

DESCRIPTION

EUCO ROCK is a pourable hydraulic cement designed for anchoring or grouting applications. EUCO ROCK sets rapidly and quickly achieves load bearing and bond strength properties. It does not contain any metallic aggregate or chloride ions.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Fast and controlled set
- Excellent freeze/thaw durability
- High early strengths

PRIMARY APPLICATIONS

- Interior and exterior applications
- Anchoring bolts in concrete slabs
- Hand rails & posts
- Reinforcing rods
- Machine bases
- Column baseplates
- May be extended with pea gravel for larger areas

APPEARANCE

EUCO ROCK is a free flowing powder designed to be mixed with water. After mixing and placing, the product color may initially appear darker than the surrounding concrete. This color will lighten substantially as the anchoring cement cures and dries out.

TECHNICAL INFORMATION

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

Test Method	Test Property	Plastic Consistency
ASTM C109M* 2 in (50 mm) cubes	Compressive Strength	3 hours 2,000 psi (13.8 MPa) 8 hours 2,700 psi (18.6 MPa) 1 day 4,000 psi (27.6 MPa) 7 days. . . . 5,500 psi (37.9 MPa) 28 days 7,000 psi (48.3 MPa)
ASTM C939	Consistency by Flow Cone	29.1 seconds
ASTM C138	Density	127.8 lbs/ft ³ (2,047.3 kg/m ³)
ASTM C882	Slant Shear Bond Strength	1 day 1,100 psi (7.6 MPa) 7 days. . . . 1,300 psi (9.0 MPa) 28 days 2,100 psi (14.5 MPa)
ASTM C827	Early Height Change	0.08% Change at Final Set
ASTM C1090	Hardened Height Change (% Change)	1 day: 0.000% 3 days: 0.004% 7 days: 0.023% 14 day: 0.042% 28 days: 0.050% 56 days: 0.052%
ASTM C1339	Flowability at 5 Minutes	Reached Endplate at 22.5 seconds Filled Box at 50.5 seconds
	Bearing Surface at 24 hours	High: > 85%
ASTM C191	Time of Setting	Initial Set: 16 minutes Final Set: 21 minutes
	Working Time	5 - 15 minutes

*Modified per ASTM C1107 Section 11.5

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DIRECTIONS FOR USE

Anchor Hole Preparation: Remove any standing water from the space to be grouted prior to beginning the cleaning process. Using oil free compressed air, insert the air wand to the bottom of the hole and blow out any debris with an up/down motion for a minimum of 4-5 seconds.

Using a wire brush that is long enough to reach the bottom of the hole, brush in an up & down and twisting motion. Blow the hole out once more to remove brush debris using oil free compressed air. Visually inspect the hole to confirm it is clean. If installation will be delayed for any reason, cover cleaned holes to prevent contamination.

Saturation: Saturate the hole for a minimum of one hour before grouting. Again, remove all free standing water before placing EUCO ROCK.

Mixing and Placing: EUCO ROCK can be easily mixed with a drill and mixing prop. Mix 50 lbs. (22.7 kg) of EUCO ROCK with 1.4 to 1.5 gallons (5.3 to 5.7 L) of water for 1 minute to a smooth, lump-free consistency. Place EUCO ROCK in thicknesses from 1/2" to 1" (6 to 25 mm) of annular space. When anchoring bolts, posts or rails in concrete or masonry, mix EUCO ROCK to a flowable consistency and pour around the bolt and fill the hole. Crown the cement slightly with a trowel or putty knife as it stiffens. When anchoring on a horizontal surface, mix EUCO ROCK to a plastic consistency and fill the pre-dampened, clean hole. Drive the anchor into place and finish surface with a trowel.

Structural Grouting: When using as a non-shrink grout under baseplates, columns, or other similar applications, See the "Cementitious Grout Application Guide" for installation means and methods.

Note: The contractor and engineer are encouraged to consult and review the Euclid Chemical bulletin: "Cementitious Grout Application Guide". The document offers instructions detailing the general installation of Euclid Chemical manufactured cement-based grout products. Important: If the contractor is not familiar with standard grout placement techniques, a pre-job meeting is suggested to review the project details unique to the particular job. Contact your local Euclid Chemical representative for additional information.

PRECAUTIONS/LIMITATIONS

- Store materials in a dry place.
- Place material quickly due to fast set.
- Use only potable water for mixing, and do not add admixtures or fluidifiers.
- Rate of strength gain is significantly affected at temperature extremes.
- Do not use material at temperatures that may cause premature freezing.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- Do not use EUCO ROCK as an anchoring grout for rock bolts. Consult your local Euclid Chemical representative for information on grouting rock bolts.
- Proper curing is required.
- In all cases, consult the Safety Data Sheet before use.

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