



THE EUCLID CHEMICAL COMPANY

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EUCO PRE-CAST GROUT

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NON-SHRINK, NON-STAIN, NON-METALLIC

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EUCO PRE-CAST GROUT is designed for critical use where high strength, non-staining characteristics and positive expansion are required. It contains only natural aggregate and an expansive cementitious binder.

PRIMARY APPLICATIONS

- Pre-Cast Panels
- Structural Supports
- Honeycomb Detailing

FEATURES / BENEFITS

- Non-staining natural aggregate for better appearance
- Non-shrink providing full structural support
- Extended working time in warm weather
- High strength and durability
- Appearance similar to concrete
- Does not contain any added chloride ions

SPECIFICATION / COMPLIANCES

- Meets the requirements of CRD C-621, Corps of Engineers Specification for Non-Shrink Grout, at a flowable consistency.
- 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, at a flowable consistency.
- Meets the performance requirements of ASTM C-1107, Grades A & B as well as Grade C, combination volume adjusting grout standard specification for packaged dry, hydraulic-cement grout (non-shrinkable), at a flowable consistency.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions at 70F (21C).

Plastic Consistency

0.75 gal/50 lb (2.8 liter/22.7 kg)

Flow Rate: ASTM C-939 & CRD C-621

110% Flow (flow table)

Compressive Strength

2" (50 mm) cubes (ASTM C-109)

<u>Age</u>	<u>Strength</u>
1 day	5,000 psi (34 MPa)
3 days	8,000 psi (55 MPa)
7 days	10,000 psi (69 MPa)
28 days	12,000 psi (83 MPa)

Expansion

Tested in Accordance with CRD C-621

3 days	.01%
7 days	.06%
14 days	.06%
28 days	.06%

Setting Time ASTM C-191

Initial Set	50 mins.
Final Set	1 hr 10 mins.

Shelf life in original unopened package is 2 years.

Appearance

EUCO PRE-CAST 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 up substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

PACKAGING / YIELD

EUCO PRE-CAST GROUT is packaged in 50 lb (22.7 kg) bags and yields 0.42 ft³ (0.012 m³) of plastic grout when mixed with 0.75 gal (2.8 liter) of water.

DIRECTIONS FOR USE

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 Company representative for additional information.

Careful preparation is a must for a successful grouting operation.

Grouts generally work best at 50-80°F (10-27°C). Cold weather retards strength gain and set time. Hot weather accelerates setting time and causes premature drying of the grout. Provide heating or cooling, as necessary, to compensate for extremes in ambient temperatures and resulting variations in cure time.

Surface Preparation-Surfaces to be grouted should be clean and free from rust, grease or oil. Determine work schedule and method of placing grout, then prepare strong, properly braced and oiled forms to retain the grout and provide relief holes, if needed. Saturate the area to be grouted with water until it is uniformly damp and remove excess water just before placing the grout.

Mixing-Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 50-80°F (10-27°C). Add the appropriate amount of clean, potable water for the batch size and then add the dry grout. Mix for a minimum of 2-3 minutes. The mixed grout should be quickly transported to the grouting site and placed immediately.

Consistency	Estimated Water Content
Plastic	.75 gal/50 lb bag (2.8 liter/22.7 kg)

Placing-If placing this product in hot weather, use of cold water will increase the working time.

Curing and Sealing-Proper curing procedures are important to ensure the durability and quality of the grout. Cure the grout with a high solids curing compound, such as SUPER REZ-SEAL, SUPER FLOOR COAT or SUPER AQUA-CURE VOX.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- Do not add any admixture or fluidifiers.
- Proper curing is required.
- Employ cold weather or hot weather grouting practices as the temperatures dictates.
- Store materials in a dry place.
- Do not allow to freeze until 4000 psi (27.6 MPa) is attained.
- Do not use as a topping.
- Do not use material at temperatures that may cause premature freezing.
- Rate of strength gain is significantly affected at temperature extremes.

Form Euco Pre-Cast Grout-2.98

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