



# EUCO GROUT UHS - IN

## NON-SHRINK, FREE FLOW ULTRA HIGH STRENGTH GROUT

EUCLID CHEMICAL

### DESCRIPTION

EUCO GROUT UHS - IN is designed for critical use where ultra high strength, non-shrink and designed to high early and ultimate strength at a flowable consistency. EUCO GROUT UHS - IN contains only natural aggregate and an expansive cementitious binder. It is extremely flowable. When cured, it appears similar to concrete in appearance. This material is blended of specially processed cement, graded fillers and special additives.

### PRIMARY APPLICATIONS

- Under machine foundation & Base plates
- Cranes and transports rails.
- Wide range of fixing Anchor Bolts
- Compressors, Motors, Pump sets
- Turbo generators and Diesel Generators
- Column baseplates

### FEATURES/BENEFITS

- Provided ready for use
- Good flowability
- Ease to use, can be discharged by gravity or pumped
- Develops high initial resistance, allowing fast release of the service
- Low permeability
- Retraction compensated
- Chlorides free.
- Non staining natural aggregate for better appearance
- Excellent bearing
- High level of contact with load bearing area with fluidity

### TECHNICAL INFORMATION

Material properties tested under laboratory conditions @ 27°C, 50% RH.

PROPERTY	RESULT
Water/Powder Ratio	0.13 - 0.14
Fresh wet Density	2250 - 2350 kg/m <sup>3</sup> depending on actual consistency
Compressive Strength	(ASTM C 109 Modified*) 70.6mm cubes 1 day : 35 MPa 3 days : 60 MPa 7 days : 70 MPa 28 days : 90 Mpa
Flexural Strength	12 MPa (ASTM C 293 - 79)
Tensile Strength	4.5 Mpa @ 28 Days
Young's modulus	28 kN/mm <sup>2</sup> (ASTM D 469 - 94)
Unrestrained expansion	1 to 4%
Pressure to restrain(plastic expansion)	0.004 Mpa approx.
Time for expansion	Platic state : 20 minutes Finish : 150 minutes later

Note : Cubes cast are kept under restrain before testing to simulate site condition.

## PACKAGING / YIELD

EUCO GROUT UHS - IN is packaged in 25 kg bags, yields 0.012 m<sup>3</sup> to 0.013 m<sup>3</sup> of fluid grout when mixed with 3.25 to 3.5 liters of water @ 2.3gm/cc Density

EUCO GROUT UHS - IN can be placed in thickness 20 mm to 100 mm max in a single pour when used as an underplate grout.

## SHELF LIFE

6 months in original , unopened package

## APPEARANCE

EUCO GROUT UHS - IN 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 it cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

## SPECIFICATIONS/COMPLIANCES

Complies with ASTM C 1107, Standard Specification for Packaged Dry, Hydraulic - Cement Grout

## DIRECTIONS FOR USE

**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.

**\* Do not add water in an amount that will cause bleeding or segregation. More or less water may be required to achieve a 25 second flow or the desired placing consistency, depending on temperature and other variables. Do not add sand or cement to the grout since this action will change its precision grouting characteristics.**

Once the correct amount of water has been added to a clean mixing pail, mix the grout with a high speed drill and mixing paddle for 3 minutes. Quickly transport the grout to the placement area.

**Placing:** EUCO GROUT UHS - IN sets more rapidly than plain mortars; therefore, place quickly and continuously. If placing this product in hot weather, the 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. Wet cure the grout until the forms are stripped. Cure the grout with a high solids curing compound, such as SUPER REZ-SEAL or SUPER AQUA-CURE VOX.

## CLEAN-UP

Clean tools and equipment with water before the material hardens.

## PRECAUTIONS/LIMITATIONS

- Weigh water accurately
- Mix mechanically for 3 to 5 minutes.
- Place the grout within 30 minutes after mixing.
- Clean the concrete and steel surfaces thoroughly before grouting.
- Do not add sufficient water to promote bleeding of the grout.
- Do not add any admixture or fluidifiers.
- Proper curing is required.
- Do not use material at temperatures that may cause premature freezing.
- Rate of strength gain is significantly affected at temperature extremes.
- Do not allow grout to freeze until 27.6 MPa is attained.
- Employ cold or hot weather grouting practices per ACI guidelines as the temperature dictates.
- Store materials in a dry place.
- In all cases, refer the Safety Data Sheet before use.

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