



NC GROUT

NON-CORROSIVE, NON-SHRINK CEMENTITIOUS GROUT

EUCLID CHEMICAL

DESCRIPTION

NC GROUT is a non-shrink, non-staining grout. Its multi-flow quality allows this product to be used at various consistencies including pumping into inaccessible areas. NC GROUT may be packed, rodded, vibrated, poured or pumped. It has high compressive and flexural strengths and is non-rusting and non-corrosive.

PRIMARY APPLICATIONS

- Interior or exterior
- Machinery base plates
- Structural steel
- Columns
- Anchor bolts
- Precast structural members

FEATURES / BENEFITS

- Can be used in wet areas - will not rust
- Above or below grade
- Versatile flow capability

TECHNICAL INFORMATION

Properties	Plastic Consistency	Flowable Consistency	Fluid Consistency
Flow Rate: (ASTM C 230)	100% (Flow Table)	120% (Flow Table)	< 30 seconds (flow cone)
Compressive strength: (ASTM C109 Modified*) 2 in (50mm) cubes	3 days 38 MPa	3 days 28 MPa	3 days 21 MPa
	7 days 52 MPa	7 days 34 MPa	7 days 33 MPa
	28 days 55MPa	28 days 48MPa	28 days 41 MPa
Expansion (CRD C 621)	3 days 0.04%	3 days 0.04%	3 days 0.06%
	28 days 0.04%	28 days 0.04%	28 days 0.07%
Setting Time: (ASTM C 191)	Initial: 2.5 to 3.0 hrs	Initial: 5.0 to 5.5 hrs	Initial: 5.0 to 5.5 hrs
	Final: 3.0 to 4.0 hrs	Final: 5.5 to 6.0 hrs	Final: 7.0 to 8.0 hrs

*See ASTM C 1107 SECTION 11.5

PACKAGING

NC GROUT is packaged in 25kg poly-lined bags

SHELF LIFE

2 years in original, unopened package

COVERAGE

One 25kg bag will yield approximately 13.2L of grout

SPECIFICATION/COMPLIANCES

- Corp of Engineer Specifications CRD C 621 and CRD C 588
- ASTM standards: ASTM C 827 and ASTM C 1107

GROUTS

NC GROUT

MASTER FORMAT #:
00 00 00

DIRECTIONS FOR USE

Surface Preparation: Concrete surface must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Edges of concrete to be grouted that are less than 25 mm thick must be vertically cut to form a uniform edge. Smooth substrates must be abraded to ensure proper bonding. Shim and anchor support elements to prevent movement. Steel must be free of oils, greases, dirt, old coatings or chemical contaminants. Saturate the prepared area with potable water for 12 to 24 hours before application. Remove excess water from holes and voids just before placement to prevent dilution of the grout.

Mixing: NC GROUT is factory-proportioned and comes ready to use by adding only potable water. Use 3.7L of water per bag of grout for a plastic consistency; 4.2L for a flowable consistency; 5.0L for a fluid consistency. For a uniform mix, use a paddle type mortar mixer. Add 2/3 of the water for the mix consistency desired into the mixer. Add the grout and mix partially. Add the remaining water to achieve the final consistency. Thoroughly mix the entire quantity for 2 to 3 minutes. Do not mix more material than can be placed in 30 minutes.

Application: All grouting should be done using established procedures and recommendations of ACI for placing and curing concrete. The method of forming must provide for rapid continuous pouring of the grout and allow a clearance of at least 76mm for entry and a "grout head" of 100 to 152 mm. Avoid air entrapment by providing adequate venting at the high point and by pouring the grout from one side only. Forms should be 25 to 50mm above the base plate. NC GROUT must be placed by pumping, pouring, rodding or vibrating. Lengths of small link chain laid in the form before placing the grout will assist in compacting the grout and eliminating air voids. The grout must be placed and compacted within 30 minutes after mixing. In applications where grout thickness exceeds 12.7cm up to 12.4kg of 9.5 mm clean and damp pea gravel may be added per 25kg bag to extend the mix. After placement, rapid drying must be prevented by covering the grout with wet burlap or by applying a membrane forming curing compound from the Euclid Chemical series of products. The forms may be removed after the grout has hardened to an initial set (see material properties). When grouting at higher temperatures, use cold water, shade the area to be grouted and protect the placed grout from direct sunlight for at least 48 hours by covering with wet burlap. When grouting at low temperatures, raise the temperature of foundation bedplate by using steam or infrared heaters. Use warm mixing water and cover the grout to retain warmth. Do not apply heat directly to the grout after its placement. Chloride based set accelerators are not recommended.

CLEAN-UP

Clean tools and equipment with water immediately following. Clean drips with water while still wet. Dried NC GROUT will require mechanical abrasion for removal.

PRECAUTIONS / LIMITATIONS

- Do not add anything but potable water.
- 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 retemper with additional water after the mixture has started to set.
- Do not add admixtures or fluidifiers.
- Do not add sand or cement to the grout since this action will change its precision grouting characteristics.
- Do not aerate the mix.
- Use appropriate cold and hot weather grouting procedures per ACI guidelines as the temperature dictates.
- Proper curing practices must be used.
- Apply at temperatures 4°C and rising.
- In all cases, consult the Safety Data Sheet before use

Rev: 16/02/17