NS GROUT

Non-shrink, Non-staining, Non-metallic Grout



DESCRIPTION

NS GROUT is designed for critical use where high strength, non-staining characteristics and positive expansion are required. NS GROUT contains only natural aggregate and an expansive cementitious binder. It is extremely flowable. When cured, it appears similar to concrete in appearance.

PRIMARY APPLICATIONS

- Pumps and fans
- Compressors & motors
- Generators

- · Machine bases of all type
- Anchor bolts
- Column baseplates

FEATURES/BENEFITS

- · Non-staining natural aggregate for better appearance
- Excellent bearing
- Compatible for Galvanic Anodes(Fluids)
- Appearance of plain concrete
- · Does not contain any added chloride ions
- · Outstanding strength

TECHNICAL INFORMATION

Material properties tested under laboratory conditions 24°C, 50% RH

| Property | Flowable Consiste | ncy Flu | uid Consistency |
|---|--|--|--|
| Flow Rate (ASTM C939/CRD C621) | 120% (Flow Table | e) 20 to 30 |) seconds (Flow Cone) |
| Compressive Strength (ASTM C109 Modified*) 2 in (50 mm) cubes | 3 days 31 M 7 days 41 M 28 days 59 M | Pa 7 | days 24 MPa days 34 MPa 8 days 47 MPa |
| Expansion (CRD C621) | 3 days 0.02 7 days 0.02 14 days 0.03 28 days 0.03 | % 7 % 14 | days 0.01% days 0.03% 4 days 0.05% 8 days 0.05% |
| Setting Time | | al Set 3 to 5 hou al Set 4 to 6 hou | |

^{*}See ASTM C 1107 Section 11.5

PACKAGING/YIELD

NS GROUT is packaged in 25 Kg bags and pails. 25 Kgs yields $0.50 \, \text{ft}^3$ ($0.01 \, \text{m}^3$) of fluid grout when mixed with $4.5 \, \text{L}$ of water.

NS GROUT 25 kg with 12.5 Kgs of 10mm Aggregate will yield approximately 0.60 ft³ (0.017 m³) of flowable consistency grout. Use pea gravel for deep fills over 127mm only.

SHELF LIFE

1 year in original, unopened package

APPEARANCE

NS 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 it cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

SPECIFICATIONS/COMPLIANCES

- Fully complies with CRD C 621, Corps of Engineers Specification for Non-Shrink Grout
- Fully complies with ASTM C 1107, Standard Specification for Packaged Dry, Hydraulic-Cement Grout
- Canadian MTQ

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.

Mixing Consistency: Estimated Water Content*

Fluid 4.5L/25kg Flowable 4.0L/25kg Plastic $3.6 \, L/25 \, kg$

*Do not add water in an amount that will cause bleeding or segregation. More or less water may be required to achieve a 25second 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.

Where NS GROUT will be placed at a thickness over 127mm, up to 12.5 Kg of Aggregate must be added to each bag of grout. Note that the water demand to achieve a certain flow level of the grout will change. 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: NS GROUT 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

- Do not add sufficient water to promote bleeding of the Do not allow grout to freeze until 27.6 MPa is
- Do not use this product at a flow cone rate of less than 20 seconds if checking flow rates on the job site (see CRD C-611 or ASTM C 939 for flow cone method).
- 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.

- attained.
- Employ cold or hot weather grouting practices per ACI guidelines as the temperature dictates.
- Store materials in a dry place.
- For dry pack applications, mechanically mix NS GROUT at a minimum water content of (2.10L/25Kg)
- Add pea gravel when placing at a thickness greater than 127mm.
- In all cases, refer the Safety Data Sheet before use.

WARRANTY: Flowcrete India Private Limited 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 Flowcrete India Private Limited no other representations or statements made by Flowcrete India or its representatives, in writing or orally, shall alter this warranty. Flowcrete India 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 Flowcrete India product fails to conform with this warranty, Flowcrete India 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 installation of Flowcrete India 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 Flowcrete India's products for the Buyer's intended purposes.