



ARMORGROUT- 50

NON-SHRINK CEMENTITIOUS STRUCTURAL GROUT

STRUCTURAL GROUT

PRODUCT DESCRIPTION

ARMORGROUT-50 is a non-shrink cementitious structural grout containing expansion agents to prevent shrinkage while the product hardens. It is designed for grouting all kinds of machinery, steel columns, precast concrete, bearing plates and anchoring applications. ARMORGROUT-50 develops high early strength and ultimate strength at 28 days.

BENEFITS

- Non corrosive, therefore will not attack reinforcement
- Controlled expansion
- High strength and chemical resistant
- High Flow and Fluidity
- Good impact and chemical resistance
- Meets ASTM C1107

AREAS OF APPLICATION

- Machinery bases and sole plates
- Anchor bolts
- Columns bases
- Pile cap re-profiling
- Gap filling and transfer lines
- Bridge bearing
- Pre cast elements and other grouting conditions requiring high in use strength

SURFACE PREPARATION / APPLICATION

Surfaces must be cleaned thoroughly, free of loose and unsound material, cement slurry and any other deposits. Surfaces must be free of oil, grease and other membranes. Rusted surfaces must be properly grinded or abraded by mechanical means. Area to be grouted with ARMORGROUT-50 must be saturated surface dry that is it must be saturated with water hours earlier and the surface water must be almost drained before application.

YIELD

At standard water content each bag of ARMORGROUT-50 will yield 9.5 Litres (0.45 cubic ft) of fluid Consistent grout. The standard water content for ARMORGROUT-50 is 3.6 litres of water for 20kg bag. Approximately 100 bags of ARMORGROUT-50 is required for 1 cubic metre of grout pour.

TECHNICAL INFORMATION

Precision Non-Shrink Grout			Plastic
Bag size			20kg
Approx. water content per bag			3.6 L
Flow, ASTM C939			
Flow, at 5 drops, ASTM C1437			100-125
Compressive strength, ASTM C109			
24 hours			20 -24 N/mm2
7 days			50 – 55 N/mm2
28 days			55 – 60 N/mm2
Expansion			2% @ 24 hrs
Height change, ASTM C1090			
1, 3, 7 and 28 days	0 - 0.2	0 - 0.2	0 - 0.2





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MIXING

The standard water requirement for ARMORGROUT-50 is 3.6 litres for 20kg bag. In the case of trowellable grout the water requirements is 2.5-2.8 litres for 20kg. However, the correct mix proportion of ARMORGROUT-50 to water is always dependent on the use to which the grout is to be put. Trial mixes should be conducted in small quantity to achieve desired mix specification before use. ARMORGROUT-50 should be mixed with a drum mixer or a small drill mixer and allowed to settle for three to five minutes to prevent air entrapment.

ARMORGROUT-50 should be placed by pumping or manual pour. Appropriate formwork should be done that does not allow leakage, to facilitate ARMORGROUT-50 compaction material should not be vibrated as this may lead to segregation but rather use roding at interval of short pours.

CURING

As soon as the grouting is completed, it should be cured immediately. Suitable curing such as membrane and plastic sheet should be used to protect freshly applied ARMORGROUT-50. Curing should continue for 7 days after pouring. Free water should be removed before pouring and the grout should be poured continuously so as to ensure air is not trapped.

PACKAGING AND SHELF LIFE

Materials are packed in 20kg bags. Shelf life is 12 months stored in cool dry place in an unopened pack

COLOUR

Grey powder when not mixed and dark grey when mixed.

HEALTH AND SAFETY

This product is highly hazardous if not used appropriately and it must be administered by trained and professional persons.

LIMITED WARRANTY

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either express or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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