ARACO GROUT 150

High Performance Structural Non-Shrink Grouting Mortar

Product Description

ARACO GROUT 150 is a single component polymer modified structural grout. It is composed of a highly performance cement, selected aggregates, fibers and special additives.

ARACO GROUT 150 is supplied as dry powder. It required only the addition of water to produce a self-compacted grout used for grouting and anchoring purposes. **ARACO GROUT 150** can also poured into prepared form-work for repairing huge structural area while being compatible with the existing concrete.

ARACO GROUT 150 contains no iron particles, chlorides or gypsum. The use of this product will not cause any type of rust, corrosion or ravel even under moist conditions.

Standards Compliance

- BS EN 6319 part 7 : 1985
- BS EN 196-1
- ASTM C1107
- ASTM C938-10

Uses

ARACO GROUT 150 can be used for:

- Repair of broken structural concrete elements
- Large thickness grouting and repair
- Grouting and filling shutter tie rod openings.
- Grouting around pipes in water structures.
- Bridge bearing pads and beams.

Advantages

- Excellent adhesion and compressive strength.
- Compatible with normal concrete
- Low porosity
- High freeze and thaw resistance
- High bond strength
- Rapid strength development.
- Can be pumped, injected, vibrated or compacted.

Package: 25 Kg Bags
Consumption: 20 kg/m2 per 10mm thickness

Surface Preparation

Areas to be repaired must be clean, sound, and free of contaminants. Saturate the surface with water prior to application then allow surface to dry. All loose and deteriorated concrete shall be removed by mechanical means. Chipping and or whip sand blasting is preferred to get a sound, rough surface.

Application

For each 25 kg bag of ARACO GROUT 150, add 3.7-4.4 liters of water.

Mix the ingredients using a suitable electrical drill for 3-4 minutes or until a uniform lump free homogeneous mixture is obtained. Allow the grout to mature for 1 min prior to pouring.

For anchoring dowels and bolts the minimum annular space around the shaft should be at least equal to the rod diameter plus 30 mm. Depth of holes: 10 to 15 times the diameter of the rod.

Special Note: Anchoring dimension should not exceed 5 cm with a thickness of 10 cm when using ARACO GROUT 150.

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Curing

ARACO GROUT 150 is a cemtitious material. It should be cured in a similar manner to concrete. Curing can be also conducted using a curing compound **ARACO CURE W**. Refer to ARACO TDS for more info about **ARACO CURE W.**

Product Data

Appearance	Grey powder
Grain size	0 to 3.0 mm
VOC	4.8 g /kg
Storage condition	Store in a dry area between 5°C and 35°C. Protect from direct sunlight
Shelf Life	Original sealed container has a shelf life of 6 months if stored in the right conditions.

Safety Instructions

The product may cause skin irritation. Wear gloves and goggles and apply barrier cream to your hands. In contact with eyes or mucous membrane. flush immediately with plenty of warm water and seek medical attention without delay.

Legal Notes

The information, recommendations, and application are based on ARACO current knowledge and experience of the products when properly stored, handled, and applied under normal conditions. ARACO products are guaranteed against defective materials and manufacture and sold subject to standard conditions. Users should always refer to the most recent technical data sheet for the product concerned, copies of which will be supplied on request.

Technical Data

Flexural Strength at 28 days

Concrete	7.88 Mpa	ASTM C 78
Hydraulic cement mortars	16.80 Mpa	ASTM C348

Compressive Strength

Average strength at 1 days	26.5 Mpa	
Average strength at 7 days	59.4 Mpa	ASTM C109
Average strength at 28 days	68.8 Mpa	

Tensile Strength

Average strength at day 7	2.21 Mpa	
Average strength at day 28	2.43 Mpa	ASTM C1583

Bond strength of epoxy-resin system used with concrete by Slant Shear

Average strength at 1 days	1.0 Mpa	
Average strength at 7 days	11.2Mpa	ASTM C882
Average strength at 28 days	18.8Mpa	

Splitting Tensile Strength of Concrete Cores

Average strength	2.56 Mpa	ASTM C496

Length Change of Hardened Hydraulic –Cement Mortar and concrete

Increase in length at 28days	0.142%	ASTM C157

Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals

Condition of the surface after 25 Cycles	Very Slight Scaling	ASTM C672

Changes in Height of Cylindrical Specimens of Hydraulic –Cement grout

Change in height at @ 28 days	+0.16%	ASTM C1090

Lebanon, Beirut, Charles Helou Ave. Saifi Area, Harbour Tower, 3rd floor
Tel: +961 1 562510
Mob: +961 3 104539
www.aracoacm.com
E-mail: aacm@grouparaco.com