



# 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.

### Characteristics

Appearance	Grey powder
Grain Size	0 to 3.0 mm
VOC	4.8 g /kg
Storage Condition	Store in a dry shaded ara at a temperature between 5°C and 35°C
Shelf Life	Original sealed container has a shelf life of 6 months if stored in the right conditions.



### ARACO GROUT 150

PACKAGE	25 Kg
CONSUMPTION	20 kg/m <sup>2</sup> 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**.

### Curing

**ARACO GROUT 150** is a cementitious 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**.

ARACO FOR ADMIXTURES & CONSTRUCTION MATERIALS S.a.l.

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### TECHNICAL DATA

<b>Flexural Strength at 28 days</b>		
Concrete	7.88 Mpa	ASTM C 78
Hydraulic cement mortars	16.80 Mpa	ASTM C348
<b>Tensile Strength</b>		
Average strength at day 7	2.21 Mpa	ASTM C1583
Average strength at day 28	2.43 Mpa	
<b>Compressive Strength</b>		
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	
<b>Bond strength of epoxy-resin system used with concrete by Slant Shear</b>		
Average bond strength at 1 day	1.0 Mpa	
Average bond strength at 7day	11.2Mpa	ASTM C882
Average bond strength at 28day	18.8Mpa	
<b>Splitting Tensile Strength of Concrete Cores</b>		
Average Strength	2.56 Mpa	ASTM C496
<b>Length Change of Hardened Hydraulic –Cement Mortar and concrete</b>		
Increase in length at 28days	0.142%	ASTM C157
<b>Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals</b>		
Condition of the surface after 25 Cycles	Very Slight Scaling	ASTM C672
<b>Changes in Height of Cylindrical Specimens of Hydraulic –Cement grout</b>		
Change in height at @ 28 days	+0.16%	ASTM C1090

### Safety instructions

Product may cause skin irritation. Wear gloves and goggles and apply barrier cream to 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 - 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 are sold subject to its 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.

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