



# ALFAGROUT HQ

## High fluid shrinkage compensated cementitious grout

### DESCRIPTION

ALFAGROUT HQ cementitious grout is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink grout for gap thicknesses from 10 mm to 125 mm. ALFAGROUT HQ is a blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in both plastic and hardened states, whilst minimizing water demand. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout.

### USES

ALFAGROUT HQ is used for free precision grouting in a wide range of heavy duty applications. Turbines, generators, compressors, diesel engines and other power equipment operating under heavy vibrato. Anchor screws, leveling units and sole plates. Steel and concrete columns. Prefabricated concrete units and structural steelworks. Bridge bearings and construction joints. Crane rails and radio telescopes. Steel and blast-furnace plants as well as mines. Paper plants, chemical plants and refineries. Pipe openings in walls and floors. For application of rock anchors.

### ADVANTAGES

- ◆ Unique non-metallic dual expansion system compensates for shrinkage in both the plastic and hardened states.
- ◆ Excellent initial flow and flow retention.
- ◆ Low permeability ensure durability of the hardened grout
- ◆ Hydrogen free gaseous expansion
- ◆ Chloride free
- ◆ Suitable for pumping or pouring over a large range of application consistencies and temperatures.
- ◆ High flowability, cement based, non shrink
- ◆ Small gransize
- ◆ Easy application, ready for use, just mix with water.
- ◆ High early and final strengths, great adhesion
- ◆ Improve to water and extensively resistant to oil, checks corrosion at the same time.

### SURFACE PREPARATION

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes and fixing pockets must be blown clean of any dirt or debris.

### CONSISTENCY OF GROUT MIX

The quality of clean water required to be added to a 20kg bag to achieve the desired consistency is given below:

Flowable	:	3.20 - 3.80 liters
Fluid	:	3.80 - 4.00 liters

The selected water content should be accurately measured into the mixer.

### TECHNICAL DATA

The following results were obtained at a water: powder ratio of 0.180 and temperature of 25°C.

#### Compressive strength

BS 1881 part 116 1983	20 N/mm <sup>2</sup> @ 1 day
	55 N/mm <sup>2</sup> @ 7 days
	64 N/mm <sup>2</sup> @ 28 days

#### Flexural strength

BS 4551 1980	8 N/mm <sup>2</sup> @ 7 days
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#### Time for expansion

<b>Plastic State</b>	Start : 15 minutes
	Finish : Initial set

<b>Hardened State</b>	Start : Initial set
	Finish : Up-to 28 days

Expansion characteristics Up-to 2% in accordance with ASTM C 940-98 a

### PACKAGING

Supplied in	20 kg bags
Storage	Dry, Frost free, out of direct sunlight
Shelf life	12 months, when stores as above
Hazard class	No dangerous goods, observe material safety datasheet

### MIXING

For best results a mechanically powered grout mixer should be used. When quantities up to 40 kg are used, a slow speed drill fitted with Mixing Paddle should be used. Larger quantities will require a high shear vane mixer.

### TECHNICAL SUPPORT

Al Falah Chemicals provides a technical advisory service for on-site assistance and advice on mix design, product selection, evaluation trials and dispensing equipment.

## STORAGE / SHELF LIFE

This Product must be stored where temperatures do not drop below +5°C, If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage consult your local Alfalah representative.

## PRECAUTIONS

### Health and Safety

This product does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

## FIRE

This product is water based and non-flammable

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### STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this Alfalah Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Alfalah Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Alfalah Chemicals, are responsible for carrying out procedures appropriate to a specific application.

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American Concrete Institute