



ALFAGROUT AP

General purpose non-shrink cementitious grout

DESCRIPTION

ALFAGROUT AP 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 up to 100 mm. ALFAGROUT AP is a blend of Portland cement, graded fillers and chemicals additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength.

USES

ALFAGROUT AP general purpose grouting is used where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate. Such an application would be the grouting of stanchion base plate. It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fence posts.

ADVANTAGES

- ◆ Gaseous expansion system compensates for shrinkage and settlement in the plastic state.
- ◆ No metallic iron content to cause staining.
- ◆ Develops high early strength without the use chlorides.
- ◆ High ultimate strength and low permeability ensure the durability of the hardened grout.
- ◆ Ready for use, just water to be added
- ◆ Does not shrink, controlled and even expansion.
- ◆ Rigid bond between foundation and steel and / or concrete unit.
- ◆ Pumpable and easy to pour - even when having low temperatures.

SURFACE PREPARATION

Surfaces to be grouted should be clean and free from rust, grease or oil. Determine work schedule and method of placing grout, then prepare strong, properly braced and oiled forms to retain the grout and provide relief holes, if needed. Saturate the area to be grouted with water until it is uniformly damp and remove excess water just before placing the grout.

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.

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:

| | | |
|-------------|---|------------------|
| Trowellable | : | 2.7 - 2.9 liters |
| Flowable | : | 3.0 - 3.4 liters |

The selected water content should be accurately measured into the mixer. The total contents of the ALFAGROUT AP bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

TECHNICAL DATA

The following results were obtained at a water: powder ratio of 0.15 and temperature of 25°C.

Compressive strength

| | | |
|-----------------------|---|--------------------------------|
| BS 1881 part 116 1983 | : | 26 N/mm ² @ 1 day |
| | : | 55 N/mm ² @ 7 days |
| | : | 64 N/mm ² @ 28 days |

Flexural strength

| | | |
|--------------|---|----------------------------------|
| BS 4551 1980 | : | 2.5 N/mm ² @ 1 day |
| | : | 9.0 N/mm ² @ 7 days |
| | : | 10.0 N/mm ² @ 28 days |

Time for expansion

| | | |
|-------------------|---|--|
| Start | : | 15 - 20 minutes |
| Finish | : | 1.50 - 2 hours |
| Fresh wet density | : | Approx. 2220 kg/m ³ depending on actual consistency used. |

Modulus of elasticity

| | | |
|---------------|---|------------|
| ASTM C 469-02 | : | >24000 MPa |
|---------------|---|------------|

Expansion characteristics: An expansion of up to 2% overcomes plastic settlement in the unset material.

STANDARDS

ALFAGROUT AP conforms with BS-4551-80, BS-1881 Pt116 ASTM C1107. Grade A, ASTM C469-02

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 |

| | | | | |
|---------------------|-------------------|--------------------|-----------------------------|----------------------|
| CONCRETE ADMIXTURES | SPECIAL ADMIXTURE | SURFACE TREATMENTS | GROUTS & ANCHORS | CONCRETE REPAIRS |
| INDUSTRIAL FLOORING | SHOTCRETE | WATERPROOFING | JOINT SEALANTS & WATERSTOPS | INDUSTRIAL ADHESIVES |

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

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.

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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