



ALFAGROUT HB90

High strength non-shrink cementitious bearing grout

DESCRIPTION

ALFAGROUT HB90 is a ready to use dry powder supplied in plastic bags. ALFAGROUT HB90 has been formulated specifically for grouting of bridge bearings and parapet post base plates.

The addition of controlled amount of clean water produces a free-flowing grout with high early and ultimate strengths as well as long term durability, suitable for use in section thicknesses 10mm to 100mm. Thicker sections can be achieved by incorporating clean, dry 10mm aggregate.

USES

ALFAGROUT HB90 is used for all precision, non-shrink grouting applications with clearances of 10mm or more, including:

- ◆ Critical equipment baseplates, soleplates & columns;
- ◆ Patching poured in place concrete structures, e.g. honeycombing, using preplaced aggregate techniques;
- ◆ Underpinning;
- ◆ Machine base plates
- ◆ Bridge base plates
- ◆ Bearings
- ◆ Crane rails, generators, presses, milling machines
- ◆ Anchor bolts & rods
- ◆ Columns base
- ◆ Precast elements

ADVANTAGES

- ◆ Unique non-metallic dual expansion system compensate both pre & post hardening shrinkage.
- ◆ Excellent initial flow and flow retention
- ◆ Low permeability and high strength, ensure durability of the hardened rout
- ◆ Hydrogen free gaseous expansion
- ◆ Chloride free
- ◆ Suitable for pumping or pouring over a large range of application consistencies and temperatures.
- ◆ High early strength - Ensures rapid commissioning of new equipment and structures.
- ◆ High ultimate strength - Ensures permanence of the installation under static and moderate repetitive loads.
- ◆ Dense, non-shrink grout - Hardens free of bleeding, settlement and drying shrinkage, ensuring tight contact with all grouted surfaces.
- ◆ Easy to use - Requires no special mixing

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.

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. Do not use a colloidal impeller mixer.

CONSISTENCY OF GROUT MIX

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

Flowable	3 Liters
Fluid	3.30 Liters

COMPRESSIVE STRENGTH

BS 1881 part 116 1983	45 N/mm ² @ 1 day
	60 N/mm ² @ 3 days
	70 N/mm ² @ 7 days
	90 N/mm ² @ 28 days

EXPANSION

ASTM C940-98a	Controlled positive expansion
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STANDARDS

ALFAGROUT HB90 is formulated to comply with ASTM C1107 Grade C, ASTM C940-98

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

YIELD

Flowable	10.30 liters
Fluid	10.60 liters

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.

HEAD OFFICE

G-1, Yousuf Chamber,
Union Comm. Area,
Shahrah-e-Faisal, Karachi,
Pakistan - 75350

Tel: +92 21 34320751 - 3

Email : info@alfalahchemicals.com
shcorp@cyber.net.pk

LAHORE OFFICE

SE-38, R-33-A,
Akbari Mandi,
Circular Road, Lahore,
Pakistan - 54030

Tel: +92 42 37379450

Email: saleslhr@alfalahchemicals.com

Certified member of:



American Concrete Institute