



Description:

BESTGROUT GP is a ready to use, non-shrink cementitious dry powder. It's a blend of Portland cements, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The addition of a controlled amount of clean water produces a flowing non shrink grout for gap thickness up to 100 mm. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout.

Uses:

BESTGROUT GP is used for general purpose grouting where it is essential to eliminate shrinkage when completely filling the void between a base plate and a substrate.

- Grouting of Machinery & rail base plates.
- Bedding
- Void filling
- Floor panel repairing where high early strength is required
- Anchoring of wide range of fixing

Advantages:

- Non-Shrink
- Flexible consistency
- High early strength
- High bond strength with concrete and steel.
- Impermeable

Technical Specs & Properties	
Appearance	Cementitious Powder
Mixing of Water	Trowel able 2.6 - 2.9 liters Flow able 3.0 - 3.5 liters
Density	Approximately 2,240 Kg./- M3 depending on actual consistency used
Setting Time	Initial : 2.5-2.75 Hrs. Final : 4.5-5 Hrs.
Compressive Strength	1 day = 26 MPa 7 days = 44 MPa 28 days = 62 MPa
Flexural Strength	1 day = 2.5 MPa 7 days = 10 MPa 28 days = 11 MPa
Shelf Life	06 Months at 15-300, stored in covered area.



Applicable Standard:

BESTGROUT GP meets or exceeds the test requirements of ASTM C 1107

Application Instructions:

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 or fixing pockets must be blown clean of any dirt or debris.

Pre-soaking:

Several hours prior to grouting, the area of cleaned foundation should be flooded with fresh water. Immediately before grouting takes place, any free water should be removed with particular care being taken to blow out all bolt holes and pockets.

Base Plate:

It is essential that this is clean and free from grease, oil or scale. Air relief holes should be provided to allow venting of any isolated high spots.

Levelling Shims:

If these are to be removed after the grout has hardened, they should be treated with a thin layer of grease.

Formwork:

The formwork should be constructed to be leak proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. In some cases, it is practical to use sacrificial semi dry sand and cement formwork. The formwork should contain outlets for pre-soaking.

Unrestrained surface area:

This must be kept to a minimum. Generally, the gap width between the formwork and the plate edge should not exceed 150 mm on the pouring side and 50 mm on the opposite side. It is advisable to have no gap at the flank sides.

MIXING AND PLACING:

For best results a mechanically powered grout mixer should be used when quantity of 20 kg is used, a slow speed drill fitted with a high shear mixer is suitable. Larger quantities will require a high shear vane mixer. Do not use a colloidal impeller mixer. To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available. The use of a grout holding tank with provision to gently agitate the grout may be required

Consistency of mixed grout:

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

Trowel able 2.6 - 2.9 liters

Flow able 3.0 - 3.5 liters

The selected water content should be accurately measured into the mixer. The total contents of the BESTGROUT GP 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





BEST CONSTRUCTION

CHEMICALS

Stick with Best

Placing:

At 20oC, place the grout within 20 minutes of mixing to gain the full benefit of the expansion process BESTGROUT GP can be placed in thickness up to 100mm in a single pour when used as an under plate grout. For thicker sections it is necessary to fill out BESTGROUT GP with well graded silt free aggregate to minimize heat build-up. Typically, a 10 mm aggregate is suitable. Any bolt pockets must be grouted prior to grouting between the substrate and the base plate.

Continuous grout flow is essential. Sufficient grout must be prepared before starting. The time taken to pour a batch of grout must be regulated to the time to prepare the next one. Pouring should be from one side of the void to eliminate any air or pre-soaking water from being trapped under the base plate. It is advisable to pour the grout across the shortest distance of travel. The grout head must be maintained at all times so that a continuous grout front is achieved. Where large volumes have to be placed, BESTGROUT GP may be pumped. A heavy duty diaphragm pump is recommended for this purpose. Screw feed and piston pumps may also be suitable.

PACKAGING:

BESTGROUT GP is supplied in 20 Kgs. Bags.

Storage:

BESTGROUT GP has a shelf life of 06 months. Its cementitious base powder must be stored in the original unopened bad at 50 C-300 C. under covered storage area.

Health & Safety Precautions:

Where temperatures is less than 50 C or greater than 350 C are encountered, contact our Technical Staff for specific advice. BESTGROUT GP is non-toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water. Protective gloves, goggles and clothing should be worn. Repeated contact with cementitious products can coz sensitization in some people handling this type of product. Where this occurs, seek medical advice before continuing use.

TECHNICAL SERVICES:

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

Disclaimer:

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.



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