

brix grout 711

HIGH STRENGTH, NON-SHRINK, FREE FLOWING, EXPANSIVE GROUT

DESCRIPTION

A specially prepared ready to use grey powder which requires addition of water and Brix Bond Repair on site, to provide

SPECIFICATION

ASTM C 827-78, ASTM C 387-77A, CRD-C-81-7A, BS 5383 PART 2 1980 E CRD – C-621-1983, ASTM C 878

COMPOSITION

BRIX GROUT is a blend of selected Portland cements, specially graded silica sands and fillers, expansion control additives and fluidifiers and is designed to produce a grout with predictable performance, free from segregation and bleeding.

USAGE

A free flowing non-shrink rheoplastic grout with a wide range of applications. Primary use is for high strength grouting where complete filling of voids is needed with a material which will continue to fill at the time of hardening; for grouting and fixing of heavy machinery, bearing plates, anchor bolts, dowel bars, crane rails etc.

ADVANTAGES

High Early & Ultimate Strength: Reaches strength as specified in CRD – C – 621 – 83 for 7 days in 24 hours and 28 days in 72 hours. Ultimate strength in excess of 600 kg / cm².

Non-Shrink : Eliminates shrinkage commonly encountered in both plastic and hardened phases.

Predictable Performance : All solid ingredients are precision mixed in the factory facilitating controlled quality on-site

Impermeable: Dense grout, resistant to oil and water penetration.

Non-Ferrous : Contains no ferrous metal and therefore will not corrode the anchor bolts & base plates.

Chloride Free : Predictable high early and ultimate strength without use of chlorides

Pumpable : Easily pumped; due to its micro cellular material structure, it does not put excessive wear on pump equipment.

BRIX GROUT is free from sulphates, Phosphates and Nitrates.

ACTION

BRIX GROUT begins to act as soon as water has been added to the mix effecting the controlled expansion characteristics. This reaction continues until firm contact is made with the confining surfaces or until the material sets. The controlled expansion of **BRIX GROUT** will offset shrinkage due to settlement, hydration and evaporation.

APPLICATION

Mixing: Damp down the inside of the grout mix with water prior to mixing the initial batch of **BRIX GROUT**. Ensure the mixer is damp but free of stagnant water. Add the pre measured quantity of necessary water. Slowly add the **BRIX GROUT** powder mixing continuously. Mix for atleast 5 mts. Until a smooth, uniform, homogenous mix is achieved.

Preparation: It is imperative that the foundation surface is free of oil, dust, dirt, paint, curing compound, etc. Soak area to be grouted with water prior to grouting to minimize localized absorption of water and assist in the free flow of the grout. Surfaces should be damp but free of stagnant water.

Particular care should be taken for boltholes to ensure these are water-free. Use oil free compressed air to blow out boltholes etc. as necessary. Ensure base plates, bolts etc., are

clean and free of oil grease and paint, etc. Set and align equipment – if shims are to be removed after the grout has set, then lightly grease them to facilitate easy removal.

Placing: Length of chains or metal strapping laid in the form work prior to placing may be necessary to assist grot flow over large areas and assist in compading and eliminating air pockets. If chains are to be used, move them in short, quick strokes and remove the before initial set occurs. Pour the grout continuously and maintain a constant hydrostatic head (preferably at least 15cms) On the same side where the grout has been poured, allow 15cms clearance between the side of the form and the base plate of the machine. On the opposite side allow at least 5-10 cm for the head of grout and 5cm clearance between the formwork and base plate.

Curing: After initial hardening of the grout, cure all exposed areas in accordance with normal practice either conventionally by utilizing water, wet Hessian or by the use of a suitable curing membrane from the **BRIXCURE** range.

PROPERTIES

Water Addition	Flowable consistency water /
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	grout ratio 0.17 to 0.18 Plastic consistency water / grout ratio: 0.16 to 0.17
Density	Flowable 2170 kg / m ²
Free Expansion	2 to 4% in the plastic state
Water Absorption	Less than 2% Restrained
Expansion	Greater than zero, but not more than 0.4% Mechanical
Special Attributes	Brix Grout is a high strength precision grouting material

The **BRIX GROUT**

- Reduced coefficient of creep
- Increased strength when fully restrained.
- Increased bond strength.
- Superior work ability.
- High compressive, tensile and flexural strength.

Yield Economy

Approximately 28 liters per 50kg sack (0.028 cu. Mt per sack)

BRIX GROUT is Economical when compared with other grouts because of its higher yield. In less demanding situation further cost reduction is possible by mixing clean and sound 1.0mm and down aggregates with **BRIX GROUT** in the proportion of 1:1 by volume with reduced flow.

STORAGE

Being cement based **Brix Grout** should be stored in the same manner as cement in cool and dry conditions. Storage life is approximately 12 months.

PACKING

20, 50 kg multi-ply sacks.

QUALITY ASSURANCE

brix products are manufactured under strict quality control measures as per manufacturing specifications. If the behavior of the product is varying from the claims in the data sheets stop the use of the product and contact the nearest **brix** representative.