

brix grout mix 720

Brix grout mix produces free flowing, non-shrink expansive grouting slurries when mixed with cement/cement sand and water. Brix grout mix is a grey powder specially designed for cable duct grouting in post tensioned girders, injection grouting of porous concrete structures in rehabilitation works and in infill mortars in structural recesses and foundation pockets.

DESCRIPTION

Brix grout mix is a fine grey powder which is mixed with dry cement or cement and sand and water is added to get a free flowing expansive grout.

COMPOSITION

Brix grout mix is composed of a blend of special cements, fluidifiers, expansion agents and expansion control additives to produce the grouts with predictable performance.

ADVANTAGES

1. high early and ultimate strength. Seven day strengths are in excess of 34N/mm² and 28 days strength above 45N/mm² when used with neat cement and also it depends on water powder ratio.
2. Positive expansion: an expansion of about 1% ensures a positive contact and adhesion with the inner surfaces of the grouted structure.
3. Free flowing: At very low water cement ratio brix grout mix produces free flowing non settling slurry of uniform consistency which is essential in cable duct grouting
4. Improved quality : brix grout mix is free from metallic iron. It is also free from chlorides, sulphates and Nitrates.

DIRECTIONS FOR USE

Add brix grout mix to the dry ingredients i.e. cement/cement and sand/cement, sand and aggregates and dry mix and then add required water. Typical mixes are as follows

MIX – 1Neat Cement Grout

Suitable for grouting cable ducts and for injection grouting

Cement – 50 kgs, brix grout mix – 500 gms, water – 15 to 18 ltr

Yield – 0.035m² of slurry, 7 day compressive strength – 350kg/cm² 28 day compressive strength- 450 kg/cm².

MIX-II Cement sand Grout

As infill mortar structural recesses and pockets. Cement – 50 kgs, Zone II sand – 50 kgs, brix grout mix –500gms. Water – 15 to 18 ltrs, Yield – 0.056m².

MIX-III non-shrink Concrete

Cement – 50kgs, Sand – 105 kg, Aggregates – 200 kg, brix grout mix - 1kg. Water 5 to 18 ltrs, Yield – 0.15m².

PROPERTIES

Brix grout mix is a fine free flowing powder.

Colour-Grey, Free expansion – upto 0.6%

Normal dosage – 500 gms/50kg of cement, Chlorides- nil, Sulphates – Nil

Nitrates – Nil, Iron – Nil

PRECAUTIONS

1.As is normal all grouts exhibit their properties fully when used in restrained conditions. Brix grout mix is a product to be used in restrained conditions. If used in open wide areas unrestrained expansion may show surface cracks and strength development will be hindered. 2. While cable duct grouting to ensure lump free slurry the grout may be passed through a grout screen of 100 to 150 microns. 3. While cable duct grouting the slurry should be pumped at a pressure of 0.3 MPa and the pump pressure builds upto 1MPa. 4. Grouting operation should be continuous till completion. The container through which the grout is pumped should be kept full by continuous addition of the grout. 5. it is recommended that the grout flow from the pump at a speed of 5 to 10 meters per minute.

DOSAGE

Brix grout mix should be added to the dry ingredients at the following dosage. a) For cable duct grouting and injection grouting 500gms per 50kgs bag of cement. b) for infill mortars 500gms per 50kgs of cement used. c) for concrete 1kg per 50kgs of cement used.

STORAGE

Store in a cool and dry place.

SHELF LIFE

One year if stored in manufacturers packing as per specification.

PACKAGING

Brix grout mix is available in packings of 500 gms and 20 kg sack.

