

Product Description

Techno Cable Grout is a plasticising and hydrogen free expansion grout admixture is supplied as a powder admixture. Techno Cable Grout allows the use of a reduced water/cement ratio with consequent increased strengths and durability. The expansive medium counter acts the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

Uses

Techno Cable Grout is an admixture for cement grouts where a reduced water/cement ratio and positive expansion are required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing.

Advantages

- Hydrogen free expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- Reduced water/cement ratio in the grout mix ensures low permeability and long term durability in service.
- Gives high grout fluidity with low water/cement ratio, thus making placement or injection of the grout easy.
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.
- Composition allows high early strength development in grouts, without the use of chlorides.

Properties

Chloride content : Nil to BS : 5075

Compressive strength : The plasticising action of Techno Cable Grout allows reduction of the water/cement ratio of cementitious grouts whilst maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.

Setting Time:

Techno Cable Grout may slightly retard the setting times of cement based grouts depending on the cement and ambient temperature.

Expansion characteristics:

The controlled positive expansion in unset grouts incorporating Techno Cable Grout over comes plastic settlement when measured in accordance with ASTM C827. An unrestrained expansion of upto 2% is typical.

Time of expansion:

15 minutes - 2 hours. Temperatures above 200C may slightly reduce these times.

Compatibility:

Techno Cable Grout is compatible with all types of portland cement. Techno Cable Grout may be used in mixes containing certain other Techno Greens admixtures. Consult Techno Greens for further information.

Application Instructions

Mixing

For best results a mechanically powered grout mixer must be used. For quantities upto 50kg a slow speed drill fitted with a high shear paddle is suitable. Larger quantities will require a high shear vane mixer. It is essential that machine mixing capacity and labour availability is adequate to enable the grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluidity. The selected water content should be accurately measured into the mixer. Slowly add the cement and Techno Cable Grout. Mix continuously for 5 minutes, making sure that a smooth even consistency is obtained.

Application

Areas to be grouted should be prepared to ensure substrates are clean, sound, and then pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. Place the grout as early as possible after mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation.

Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, Concure curing membrane or wet Hessian.

Clean

Grouts mixed with Techno Cable Grout should be removed from tools and equipment with clean water immediately after use. Cured material should be removed mechanically.

Limitations

Techno Cable Grout is incompatible with High Alumina Cement. Required expansion may not be achieved, if grout is bleeding.

Packaging

Techno Cable Grout is supplied in 225 gm packs.

Dosage

OPC	Concreting Sand	Water	Techno Cable Grout	Approx. Yield
50kg	-		225g	36 litres
50kg	50kg		225g	57 litres

Best determined by site trials. As a guide suggested W/P is 0.39 to 0.45.

Note: For grout, mortar or concrete mixes with an aggregate/ cement ratio more than 1, use 4 x 225g units of Techno Cable Grout per 100 kg of cement.

Effects of Overdosage

Drastic overdosing of Techno Cable Grout increases expansion and may cause frothing.

Shelf Life

6 months if kept in a dry store in its original packing. High

Health & Safety

Techno Cable Grout is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves, eye/face protection and dust mask should be worn. Any contact with skin, should be washed with clean water. Incase of contact with eyes, should be rinsed immediately with plenty of water and sought medical attention.

Important:Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However,Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

For Complaints/Suggestions:

Please write to our Customer Care Executive at

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