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STONEGROUT EGA

[Non-Shrink Grout]

Description

STONEGROUT EGA is supplied as a powder admixture. The material is a combination of a plasticizing agent and a gas producing expansion medium. The plasticizing agent allows the use of a reduced water/cement ratio with consequent increased strengths and durability. The expansive medium counteracts the natural settlement and plastic shrinkage of the grout and aids stability and cohesion. Sufficient restrained expansion is developed to ensure a high degree of inter facial contact.

Advantages

- Gaseous expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- Reduced water/cement ratio mixes 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.

Uses

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

Instructions for use

Mixing

For best results a mechanically powered grout mixer must be used. For quantities up to 50 kg 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 sand if required) and STONEGROUT EGA. 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 within 20 minutes of mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation.

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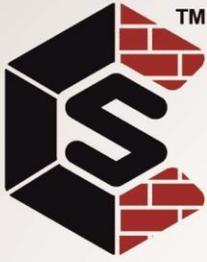


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Curing

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.

Cleaning

Grouts mixed with STONEGROUT EGA should be removed from tools and equipment with clean water immediately after use. Remove cured material mechanically.

Technical Data

L Chloride content:	Nil to BS5075
Compressive strength:	The plasticizing action of STONEGROUT EGA 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 times:	STONEGROUT EGA does not significantly affect the setting times of cement-based grouts.
Expansion characteristics:	The controlled positive expansion in unset grouts incorporating STONEGROUT EGA overcomes plastic settlement when measured in accordance with ASTM C-827. An unrestrained expansion of up to 4% is typical.
Time for expansion:	15 minutes to 2 hours. Temperatures above 20 Degree C may slightly reduce these times.
Compatibility:	STONEGROUT EGA is compatible with all types of Portland cement. STONEGROUT EGA may be used in mixes containing certain other CRETESTONE admixtures.

Limitations

STONEGROUT EGA is incompatible with High Alumina Cement.

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Dosage

OPC	Concreting sand	Water	Stonegrout EGA	Yield (approx)
50 kg	-	20-22 lts	200 g	36 ltrs
50 kg	50 kg	22-24 lts	200 g	57 ltrs

Effects of Overdosing

Drastic over-dosing of STONEGROUT EGA increases expansion and may cause frothing.

Standards compliance

STONEGROUT EGA is a suitable pre-stressing grout admixture when complying with BS8110 Part 1, 198 Section 8.9.4.6.

Packing

STONEGROUT EGA is supplied in 200 gms and 25 kg.

Note

For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, use 4x200g units of STONEGROUT EGA per 100 kg of cement.

Storage

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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