



An ISO 9001: 2008 Certified Company.



Duragrout - GA

Plasticized expanding grout admixture

Uses

Duragrout:GA 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.

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.

Standards compliance

Duragrout:GA is a suitable pre-stressing grout admixture when complying with BS 8110, Part 1:1985, section 8.9.4.6.

Description

Duragrout:GA 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 interfacial contact.

Technical support

Condura offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Technical Data Sheet

Properties

Chloride content	: Nil to BS 5075
Compressive strength	The plasticizing action of Duragrout GA 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	Duragrout:GA does not significantly affect the setting times of cement based grouts.
Expansion characteristics	The controlled positive expansion in unset grouts incorporating Duragrout:GA overcomes plastic settlement when measured in accordance with ASTM C827. An unrestrained expansion of up to 4% is typical.
Time for expansion	15 minutes - 2 hours. : Temperatures above 20°C may slightly reduce these times.
Compatibility	Duragrout:GA is compatible with all types of Portland cement. Duragrout GA may be used in mixes containing certain other Condura admixtures. Consult Condura for further information.

Instructions for use

Mixing

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 Duragrout:GA.

Mix continuously for 5 minutes, making sure that a smooth even consistency is obtained.

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Grouting

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.

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 Duragrout:GA should be removed from tools and equipment with clean water immediately after use.

Limitations

Duragrout:GA is not compatible with High Alumina Cement.

Estimating

Supply

Duragrout:GA : 15.890 kg tins (14 x 1.135 kg = 15.890 kg)
: 1.135 kg tins (5 x 227 g = 1.135 kg)

Dosage

OPC	Concreting sand	Water	Duragrout GA	Approx. yield
50 kg	---	20 - 22 litres	227 gr	36 litres
50 kg	50 kg	22 - 24 litres	227 gr	57 litres

Note: For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, use 4 x 227 g units or 908 g of Duragrout:GA per 100 kg of cement.

Effects of overdosing

Overdosing of Duragrout:GA increases expansion and may cause frothing.

Storage

Duragrout:GA has a shelf life of 12 months if kept in a dry store in its original packaging. High temperature and humidity storage may reduce this period.

Precautions

Health and safety

Duragrout:GA is of low hazard.

Contact with the skin and eyes, or inhalation of dust should be avoided. Wear suitable protective clothing, gloves, eye/face protection and dust mask.

After contact with skin, wash off with clean water. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

For further information see Product Material Safety Data sheet.