MAXGROUT® 100

THERMAX

Ready to Use, Cementitious Based Plasticized Expanding Grout Admixture

Maxgrout[®] 100, a plasticised expanding grout admixture is supplied as a powder. The material is a combination of a plasticising agent and a gas producing expansion medium. The plastisicing 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.

Uses

Maxgrout[®] 100 is an admixture for cementitious grouts where a reduced water/cement ratio and positive expansions are required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing.

Benefits

- Gaseous expansion system compensates for plastic shrinkage and settlement.
- Reduced water/cement ratio mixes in the grout mix ensures low permeability and long term durability in service.
- Gives grout high 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

Maxgrout[®] 100 is a suitable pressure grouting admixture complying with BS: 8110 Part 1-1985, Section 8.9.4.6.

Technical Support

Thermax offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Thermax offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

Chloride Content: Nil as per BS:5075

Compressive Strength

The plasticizing action of Maxgrout® 100 allows reduction of the water cement ratios of cementitious grouts while maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.

Expansion Characteristics

The controlled positive unset expansion in grouts Maxgrout® incorporating overcomes plastic settlement when measured in accordance ASTM С 827. unrestrained expansion of up to 4% is typical.

Time for Expansion

15 mintues - 2 hours Temperatures above 20°C may slightly reduce these times.

Compatibility

Maxgrout® 100 is compatible with all types of portland cement.

Maxgrout[®] 100 may be used in mixes containing certain other Thermax admixtures ranges.

Thermax shall be contacted for further information.

Specification Clauses

Performance Specification

All grouting (specify details and areas of application) must be carried out with a cement based grout incorporating a plasticised, expanding powder admixture. The grout admixture must be iron-free and chloride-free and shall be added to the cement grout in the proportion of 225g per 50kg of cement. The grout admixture shall provide an expansion of up to 4% in the plastic grout, by means of a gaseous system. The grout admixture must be stored, handled and mixed strictly in accordance with the manufacturer's instructions.

Supplier Specification

All grouting (specify details and areas of application) must be carried out using a cement based grout, incorporating Maxgrout® 100 manufactured by Thermax and applied strictly in accordance with

MAXGROUT® 100



the manufacturer's technical datasheet.

Application Instructions

Instructions for Use

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. Large quantities will require a high volume drum 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. The cement (and sand if required) shall be slowly added to Maxgrout[®] 100. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

Application

It shall be ensured that areas to be grouted are clean, sound, and then pre- wetted. The unrestrained surface area of the grout must be kept to a minimum. The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process. Usual placing or pumping procedures shall be adopted 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, MAXCURE® curing membrane or wet hessian.

Cleaning

Grouts mixed with Maxgrout[®] 100 should be removed from tools and equipment with clean water immediately after use. Cured material should be removed mechanically or with multipurpose cleaning agent.

Limitations

Maxgrout® 100 is incompatible with High Alumina Cement.

Storage

Shelf Life

Maxgrout[®] 100 has a shelf life of 12 months if kept in a dry store in sealed bags. If stored in high temperature and high humidity locations, the shelf life may be reduced.

Packing

Maxgrout® 100 is supplied in 225 g packs.

Dosage

OPC	Concreting	Water	Maxgrout [®]	Approx
	Sand		100	Yield
50kg	-	20-	225gm	36ltr
		22ltr		
50kg	50kg	22-	225gm	57ltr
		24ltr		

Note: For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, 4 x 225 g units of Maxgrout[®] 100 per 100 kg of cement, shall be used.

MAXGROUT® 100



Thermax Limited

Environment House, Plot No.90-92 BG Block, MIDC, Bhosari,

Pune 411 026, India. Tel: +91-20-67156000 Fax: +91-20-27120206

Customer Care: 18002090115 (India

oll free)

Email: enquiry@thermaxglobal.com

Ahmedabad

Tel: +91-79-26575408 • Fax: +91-79-65577270

Bengaluru

Tel: +91-80-22371721 • Fax: +91-80-22371726

Chennai

Tel: +91-44-24303400 • Fax: +91-44-24353841

Delhi

Tel: +91-11- 46087200 • Fax: +91-11- 26145311

Hyderabad

Tel: +91-40-23253700 • Fax: +91-40-23253799

Kolkata

Tel: +91-33-66070800 • Fax: +91-33-66070999

Mumbai

Tel: +91-22-67542222 • Fax: +91-22-22040859

Thermax World-wide

UK, USA, UAE, Germany, Belgium, Denmark, Russia, Saudi Arabia, Thailand, Malaysia, Bangladesh, Sri Lanka, China, Philippines, Peru, Chile, Kenya, Nigeria, Brazil, Indonesia

Website: www.thermaxglobal.com

Thermax Business Portfolio

Chemicals

Absorption Cooling

Air Pollution Control

Boilers & Heaters

Power

Water & Waste Solutions

Solar

Other Segments:

- Concrete Admixtures Surface Treatments Grouts & Anchors Repair & Rehabilitation
- Protective Coatings Industrial Flooring Waterproofing Sealants Adhesives

Disclaimer: The information contained in this document is true and accurate to the best of our knowledge and is based on our experience & test results. It is always the Company's endeavor to give true and accurate information however as it does not have any direct and/or continuing control on the use of the Products, the Company cannot accept any liability, direct or indirect as a consequence of the use of Products. In the event of any doubt upon any critical parameter it is advisable to seek clarification from our technical representative.

We reserve the right to amend any product details without notice. Copyright © Thermax Limited Edition: (TCC/TDS/0420)