

Mahagrout[™] CPG-100

Expanding & Plasticising Grout Admixture

Description

Mahagrout CPG-100 is a plasticized expanding grout admixture is supplied as a powder. The material is a combination of a plasticising agent and a gas producing expansion additive. The plasticising 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.

Features / 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 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.

Typical application

- Mahagrout CPG-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
- For joining structural elements by injection and pressure grouting (a pressure pump of around 2-3 bars is used)

Technical Information

Property	Results
Appearance	Free flowing powder
Colour	Brownish to grey powder
Mixing ratio For surface levelling	2 parts Powder & 1 part water by weight
Setting time	It does not significantly alter the setting times of cement based grouts.
Expansion Characteristics	An unrestrained expansion from 1 to 4%.
Time for expansion	15 minutes - 2 hours.
Compatibility	Compatible with all types of portland cement
Chloride content	Nil

Methods of Application

Surface Preparation

- Clean loose particles, dirt, grease, and traces of foreign materials from the surface, if necessary, by using wire brush/sandpaper or by chipping.
- Wash the surface with water and surface must be SSD condition before application

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 speed 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 Mahagrout CPG-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.

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Effects of Overdosing

Drastic overdosing of Mahagrout CPG-100 increases expansion and may cause frothing

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, curing membrane or wet hessian.

Dosage

- For pressure grouting 50 kg OPC cement need 1 pouch (250 Gms). Yield 36 liter.
- For Gravity Grouting 50 kg OPC cement+50 kg sand + 250 Gms Mahagrout CPG-100. Yield 57 liter.
- For Concrete 100 kg cement + 250 Gms Mahagrout CPG-100

Usage Precautions

It is not compatible with high alumina cement.



Packing

250 gms



Cleaning of Tools & Equipments

Before the material sets clean the tools, equipment's & hands with soap or plain water. Cured material can be removed by vigorous scrubbing using sand paper or scrapper.



Storage and Shelf life

- Store in cool, dry, and well-ventilated place away from heat source or direct sunlight.
- Keep away from water and damp area.
- Avoid using partially used material; open bags with partially used material should be kept in a bag with its mouth tied tightly with string to prevent lump formation.
- As temperature, humidity, water addition and other parameters vary from site to site; the above information should be treated as general guidelines.
- Shelf life is 12 months.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

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Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

Mahafix

WATERPROOFING SPECIALIST



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