



# GROUT ADMIX (PLASTICIZED EXPANDING GROUT ADMIXTURE )

## TECHNICAL DATA SHEET

### DESCRIPTION

Grout Admix, a plasticized expanding grout admixture is supplied as a powder. 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.

### USE

Grout Admix 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.

### 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.

### PROPERTIES

Setting time	Grout Admix does not significantly alter the setting times of cement based grouts.
Chloride content	Nil
Time for expansion	15 mintues - 2 hours. Temperatures above 20°C may slightly reduce these times.
Compressive strength	The plasticising action of Grout Admix allows reduction of the water cement ratios of cementitious grouts whilst maintaining flow properties. This gives improvement in strength and long term durability when cured under restraint.
Expansion characteristics	The controlled positive expansion in unset grouts incorporating Grout Admix overcomes plastic settlement. An unrestrained expansion of up to 4% is typical.
Compatibility	Grout Admix is compatible with all types of portland cement. Grout Admix may be used in mixes containing certain admixtures..

### APPLICATION INSTRUCTIONS

#### 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.

## APPLICATION

### 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 Grout Admix. 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.

### Note:

Grout Admix is **incompatible** with High Alumina Cement

For grout, mortar or concrete mixes with an aggregate/ cement ratio more than 1, 4 x 225 g units of Grout Admix per 100 kg of cement, shall be used.

### **Effects of overdosing**

Drastic overdosing of Grout Admix increases expansion and may cause frothing.

### **Dosage**

OPC	Concreting Sand	Water	Grout Admix	Approx Yield
50 kg	-----	20 – 22 lit	225 g	36 lit
50 kg	50 kg	22 – 24 lit	225 g	57 lit

## CLEANING

Grouts mixed with Grout Admix should be removed from tools and equipment with clean water immediately after use. Cured material should be removed mechanically or with multi purpose cleaning agent.

## PACKING

Grout Admix is supplied in 225 g packs

### **STORAGE & SHELF LIFE:**

Grout Admix has a shelf life of 6 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce this period.

### **HEALTH & SAFETY:**

Grout Admix 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. In case of contact with skin, it shall be washed with clean water. In case of contact with eyes, it shall be rinsed immediately with plenty of water and medical attention shall be sought immediately.

## ADDITIONAL INFORMATION

“Bostik India P Ltd.,” also supplies other construction chemicals, concrete repair and rehabilitation products including protective coatings, epoxy and polyurethane coatings and floor toppings, water proofing, concrete repair products, tile adhesives and grouts, adhesives and sealants based on PU and elastomeric rubbers for varied application in packaging, foot ware etc.,

## WARRANTY

Whilst Bostik India P Ltd., strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered.

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Smart help digital  
[bostik.com/](http://bostik.com/)

Smart help  
+91 80 68297700

