

K2 GROUT 225

PLASTICISED EXPANDING GROUT ADMIXTURE



A cementitious grouts admixture for obtaining reduced water/cement ratio and positive expansions. Typical applications are bed grouting, duct grouting, non-shrink in filling and jointing.

BENEFITS

- Nullifies plastic shrinkage and settlement in properly designed cementitious grout due to Gaseous expansion system
- Ensures low permeability and long term durability in service due to reduced water/cement ratio mixes in the grout mix.
- Placement or injection of the grout is easy because of high fluidity with low water/cement ratio
- Free from metallic iron content. Does not corrode and cause staining or deterioration due to rust expansion in the grout.
- Attains high early strength in grouts, without the use of chlorides.

STANDARDS

K2 Grout 225 is a suitable pressure grouting admixture complying with BS: 8110 Part 1-1985, Section 8.9.4.6.

DESCRIPTION

K2 Grout 225, a plasticised expanding grout admixture powder combining a plasticising agent and a gas producing expansion medium. The plasticising agent enables a reduced water/cement ratio with consequent increased strengths and durability. The expansive medium balances the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

PROPERTIES

Chloride content : Nil as per BS:5075

Compressive strength : The plasticising action of K2 Grout 225 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 controlled conditions.

Setting Time

K2 Grout 225 does not influence the setting times of cement based grouts.

Expansion Characteristics : The controlled positive expansion in unset grouts containing K2 Grout 225 nullifies plastic settlement as per ASTM C827. Normal expansion of up to 4% is typical.

Time for expansion : 15 minutes - 2 hours. Temperatures above 20°C may slightly reduce expansion time.

Compatibility : K2 Grout 225 is compatible with all types of portland cement and other premixed admixtures.

Performance Guideline

All grouting must be carried out with a cement based grout containing a plasticised, expanding powder admixture which is iron-free and chloride-free and should be added to the cement grout in the proportion of 225gm per 50kg of cement. K2 Grout 225 will provide an expansion of up to 4% in the plastic grout, by means of a gaseous system.

K2 Grout 225 must be stored, handled and mixed strictly in accordance with the manufacturer's technical datasheet..

APPLICATION INSTRUCTIONS

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 ready 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 water content should be accurately measured into the mixer. The cement (and sand if required) shall be slowly added to K2 Grout 225. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

APPLICATION

Ensure areas to be grouted are clean, sound and pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. The grout should be pumped within 20 minutes of mixing to gain the full benefit of the expansion process. Normal 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, curing compound or wet hessian.

Cleaning

K2 Grout 225 should be removed from tools and equipment with clean water immediately after use.

LIMITATIONS

K2 Grout 225 is incompatible with High Alumina/fast setting Cement.

Packaging

K2 Grout 225 is available in 225 gm pouch packs.

Dosage

OPC	Concreting Sand	Water	K2 Grout 225	Yield
50kg	-----	20-22 liters	225 gm	36 liters
50kg	50 kg	22-24 liters	225 gm	57 liters

Note : For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, 4 x 225 gm units of K2 Grout 225 per 100 kg of cement, should be used.

Overdosing of K2 Grout 225 increases expansion and may cause frothing.

Shelf life

K2 Grout 225 has a shelf life of 6 months if kept in a dry condition in its original packing. High temperature and humid conditions may reduce the shelf life.

Health and Safety instructions

K2 Grout 225 is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Wear protective clothing, gloves eye/face protection and dust mask. In case of contact with skin, wash with clean water. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

TECHNICAL SUPPORT

The company provides a technical service supported by a team of specialist applicators in the industry

Important note :

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