

Product Data Sheet  
Edition 07.2008  
Identification No. MA - 7



## KEMGROUT AID

A plasticizing, expansive grout admixture

### Description

**KEMGROUT AID** is a powder admixture for cement grouts and concrete, combining a plasticizing agent and a gas producing expansion medium. The plasticizing agent allows the use of a low water / cement ratio with consequent high strengths and durability. The expansion 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.

### Where to use

As an admixture for cement grouts where a low water / cement ratio and positive expansion are required for applications including bed grouting, duct grouting, non shrink infilling and jointing.

### Advantages

- Compressive Strength the addition of KEMGROUT AID can improve the compressive strength of cement based grouts by approximately 12% when cured under restraint.
- Setting Time final setting time of cement grout is not significantly affected.
- Expansion characteristics an unrestrained positive expansion of 1-4 % is typical in unset grouts in-corporating KEMGROUT AID to overcome plastic settlement when measured in accordance with ASTM C827.
- Temperatures above 20<sup>o</sup> C may slightly reduce this time.
- Compatibility KEMGROUT AID compatible with high Alumina cement, KEMGROUT AID may be used in mixes containing certain other PROKEM admixtures.

### Properties

Chloride content	Nil
Expansion Time	20-120 mins.
Compressive Strength	Nil
Pressure to Restrain	Approximately
Plastic Expansion	0.005 N /mm <sup>2</sup> .
Setting times	Didn't affect

### How to use

#### Surface preparation:

- All surfaces to be grouted should be sound and clean
- All surfaces to be grouted should be wetted

#### 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. Mix continuously for 5 minutes to ensure a smooth even consistency is obtained.

#### Application:

Areas to be grouted should be prepared in the usual way to ensure clean sound, pre-wetted substrates. Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Adopt usual placing of pumping procedures ensuring a continuous operation.

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**Curing:**

On completion of the grouting operation, exposed areas which are not to be cut back should be thoroughly cured by means of water application, KEMCURE curing membrane or wet hessian.

**Cleaning:**

KEMGROUT AID should be removed from tools and equipment immediately after use with clean water.

**Theoretical Coverage:**

OPC	5 m m sand	Water	KEMGR OUTAID	Approx Yield
Content (icg)	Content (kg )	Content (L)	(gm)	(L)
50kg	-	22	225	36
50kg	50	22	225	57

For grouts, mortar or concrete mixes with an aggregate/cement ratio more than 1 use 450g. of KEMGROUT AID per 50 kg of cement. Drastic overdosing of KEMGROUT AID increases expansion and may cause frothing.

**Packaging:**

KEMGROUT AID is supplied in packs each contains 225 gm.

**Storage:**

KEMGROUT AID has a shelf life of 12 months if kept in a dry store in its original packaging.

### Health and Safety

When mixing grouts with KEMGROUT AID gloves should be worn , splashes of grout to the skin or eyes should be washed off clean water . in the event of prolonged irritation , seek medical advice .

### Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range.

For our customer's satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.