



# ALFAGROUT PE-100

## Plasticised expanding grout admixture

### DESCRIPTION

ALFAGROUT PE-100 is a powdered admixture used for the positive expansion and water reduction for Portland cement concrete. Its functional mechanism is based on the formation of an expansive component. 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. Sufficient restrained expansion is developed to ensure a high degree of interfacial contact.

### USES

- ◆ Cavity Filling
- ◆ Filling gaps between precast elements
- ◆ Repairing honeycombs by pressure grouting
- ◆ Filling up the plumbing & electric chases
- ◆ Flatwork concrete
- ◆ Bridge decks
- ◆ Parking structures
- ◆ Interior/Exterior
- ◆ Arena/Artificial skating rinks
- ◆ Walls/Parapets
- ◆ Storage tanks
- ◆ Watertight construction
- ◆ Bed grouting/Duct grouting
- ◆ Non-shrink in filling and jointing
- ◆ Pre-stressed cable ducts

### ADVANTAGES

- ◆ Gaseous expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- ◆ Reduced water:cement ratio in the grout mix, ensures low permeability and long term durability in service.
- ◆ 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 grout, without the use of chlorides.
- ◆ It is compatible with the majority Portland cements.
- ◆ ALFAGROUT PE-100 does not affect the air content, set time or other characteristics of fresh concrete.
- ◆ ALFAGROUT PE-100 gives high grout fluidity with low water/cement ratio, thus making placement or injection of the grout easy.

### DOSAGE

OPC	Concreting Sand	Water Liter	ALFAGROUT PE-100	Approx. Yield
50 kg	NIL	20-22	225gms	36 Ltr.
50 kg	50 kg	22-24	225 gms	57 Ltr.

### EFFECT OF OVERDOSING

Overdosing of ALFAGROUT PE-100 increases expansion and may cause frothing.

### TECHNICAL DATA

Specific Gravity	3.13 - 3.16
PH	12.5 - 13.0
Unrestrained expansion	4% (ASTM C827)
Time for expansion	15 minutes to 2 hours at 20°C.
Chloride contents	Nil to Bs 5075

### MIXING

For quantity up-to 50 kg a slow speed drill fitted with a high shear paddle is suitable. Large 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.

### PACKAGING

Supplied in:	20 kg bag
Storage	Dry, frost free, out of direct sunlight
Shelf life:	12 months, when stores as above
Hazard class	No dangerous goods. Observe Material Safety Datasheet

### APPLICATION

Areas to be grouted should be prepared to ensure substrates are clean, sound and then pre-wetted. The unrestrained surface area of the grout must be kept to a minimum. Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation.

### TECHNICAL SUPPORT

Al Falah Chemicals provides a technical advisory service for on-site assistance and advice on mix design, product selection, evaluation trials and dispensing equipment.

CONCRETE ADMIXTURES	SPECIAL ADMIXTURE	SURFACE TREATMENTS	GROUTS & ANCHORS	CONCRETE REPAIRS
INDUSTRIAL FLOORING	SHOTCRETE	WATERPROOFING	JOINT SEALANTS & WATERSTOPS	INDUSTRIAL ADHESIVES

## STORAGE / SHELF LIFE

This Product must be stored where temperatures do not drop below +5°C, If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage consult your local Alfalah representative.

## PRECAUTIONS

### Health and Safety

This product does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet available for this product.

## FIRE

This product is water based and non-flammable

### STATEMENT OF RESPONSIBILITY (Disclaimer)

The technical information and application advice given in this Alfalah Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Alfalah Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Alfalah Chemicals, are responsible for carrying out procedures appropriate to a specific application.

### HEAD OFFICE

G-1, Yousuf Chamber,  
Union Comm. Area,  
Shahrah-e-Faisal, Karachi,  
Pakistan - 75350

Tel: +92 21 34320751 - 3

Email : info@alfalahchemicals.com  
shcorp@cyber.net.pk

### LAHORE OFFICE

SE-38, R-33-A,  
Akbari Mandi,  
Circular Road, Lahore,  
Pakistan - 54030

Tel: +92 42 37379450

Email: saleslhr@alfalahchemicals.com

Certified member of:



American Concrete Institute