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CI/SFB

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TECHNICAL DATA SHEET TDS140  
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## GROUTEX

### DESCRIPTION

GROUTEX is an expansive and plasticising admixture for cementitious grouts where a low water : cement ratio and positive expansion are required. Contains selected non-reactive fine aggregates.

### USES

GROUTEX can be used in the following applications:

- Bed plate grouting.
- Duct grouting.
- Non-shrink infilling and jointing.
- Grouting tunnel linings.

### TECHNICAL DATA

Appearance	Grey/Brown granular powder
Density:	1550 kg/m <sup>3</sup>
Application Temperature Service Temperature	+2°C to +40°C -20°C to +200°C

### Typical Test Results at 20°C

Mix	Sand : Cement	Water : Cement	Admixture	Expansion	Compressive Strength N/mm <sup>2</sup>
CONTROL MIX	50 : 50 pbw	0.35	NIL	-0.6%	11.9 @ 1 Day 52.0 @ 7 Days 62.3 @ 28 Days
TEST MIX	50 : 50 pbw	0.32	1 Pack GROUTEX	+0.8%	16.8 @ 1 Day 63.0 @ 7 Days 65.8 @ 28 Days
CONTROL MIX	100 : 50 pbw	0.44	NIL	-0.5%	8.8 @ 1 Day 30.8 @ 7 Days 37.8 @ 28 Days
TEST MIX	100 : 50 pbw	0.42	2 Packs GROUTEX	+0.8%	9.5 @ 1 Day 32.9 @ 7 Days 40.3 @ 28 Days

### ADVANTAGES

- \* **NON SHRINK**  
Gaseous expansion system compensates for plastic shrinkage and settlement in cementitious grouts.
- \* **DURABILITY**  
Reduced water : cement ratio ensures low permeability and long term performance in service.
- \* **HIGH FLOW**  
High grout fluidity with low water : cement ratio, for ease of placement or injection.
- \* **CHLORIDE FREE**  
Composition allows high early strength development in grouts, without the use of chlorides.
- \* **IRON FREE**  
No metallic iron content to cause staining or deterioration due to rust expansion.

### PACKAGING

GROUTEX is available in securitainers each containing sufficient GROUTEX for 50kg of cement.

## METHOD OF USE

### Dosage

Typical Mixes:

OPC	Zone 3 Sand Content	Water Content	Groutex	Approx Yield
50 kg	-	16 – 20 Lt	194 gm	34 litre
50 kg	50 kg	18 – 22 Lt	194 gm	54 litre

Note: For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, use 388gm GROUTEX per 50 kg of cement.

### 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 shear paddle is suitable. Larger quantities will require a high shear vane mixer. It is essential that the 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 GROUTEX. Mix continuously for 5 minutes, making sure that 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 or pumping procedures ensuring a continuous operation.

### 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, a curing membrane such as SEALOCURE AC or wet hessian.

### STORAGE

GROUTEX should be stored in a cool, dry place away from moisture and direct sunlight. Shelf life is a minimum of 12 months in unopened, sealed containers.

### HEALTH AND SAFETY

GROUTEX is a flammable solid. Contact with water liberates highly flammable gases. Avoid breathing the dust. For further information please refer to the Health & Safety Data Sheet.

*We endeavour to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly, no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety information.*

