



# **ABA 10C EXPANCRETE PREMIX**

Ready mixed non-shrink grout

## **Product Description**

ABA 10C Expancrete Premix is supplied as a ready mix dry powder, requiring only the addition of water to produce a non-shrink grout of plastic or flowable consistency.

It is specifically formulated to produce a non-shrink, non-metallic, chloride and nitrate free grout. The low water requirement ensures high early strength and long term durability. The silica sand grading is designated to aid uniform mixing and to minimize bleeding and segregation.

## **Feature/Benefits**

- Shrinkage compensation system
- Iron Free
- High compressive, flexural and bond strength
- Reduced co-efficient of creep
- Reduced bleeding and segregation
- Pre-weighed quality controlled unit
- Chloride Free
- High ultimate strength and low permeability to ensure durability
- Superior workability for plastic or flowable consistency

## **Application Range**

- Concrete repair and floor patching
- Heavy machinery and equipment foundations
- Anchor bolts
- Bearing plates and bridge sealing
- Post tensioned concrete ducts
- Packing column bases and prefabricated unit joints

## **Specification Clause**

The non-shrink grout shall be ABA 10C Expancrete Premix, a premix mortar that can be either plastic or flowable consistency. Use in accordance with manufacturer's recommendations.

## **Application Notes**

### **Packaging**

Available in 25kg multi ply paper bag

### **Shelf Life**

12 months when stored in the original unopened packaging

### **Coverage / Yield**

Approximately 0.013 m<sup>3</sup> per bag

### **Surface Preparation**

Ensure that the substrate is sound and clean. All loose materials must be removed. Wet the substrate with water but ensure that there is no free surface water before installing ABA 10C Expancrete Premix

For large areas of application e.g floor toppings or concrete repair works, an appropriate bonding agent from the ABA Range should be used. Formwork or saw cut edges may be required to control expansion.

### **Mixing**

To achieve the desired consistency, the following volume of water is recommended:

<b>CONSISTENCY</b>	<b>WATER REQUIRED PER 25kg BAG</b>
Plastic	3.8 ± 0.1 litres
Flowable	4.4 ± 0.1 litres

For desired results, use a mechanically powered grout mixer. The selected water content should be accurately measured and poured into the mixer followed by ABA 10C Expancrete Premix and mixed until a uniform consistency is obtained, usually 3 to 5 minutes depending on mixer type. Do not mix more materials that can be installed and finished within 20 minutes.

### **Placing**

Once mixed, do not re-tamper with water. For flowable consistency, place the ABA 10C Expancrete Premix into formwork from one side only so as to avoid air-entrapment. Place in a continuous operation to eliminate voids. For plastic consistency, tamping is essential to achieve good compaction. Do not vibrate.

### **Storage**

Conditions of storage are as those of cement, i.e. damp-free, preferably palletised.

### **Cleaning**

Tools and equipment should be cleaned immediately with water.

### **Product Limitations**

- Concrete substrate must be thoroughly pre-wet before grouting is to be commence
- Do not part mix the product.

### **Safety Data**

ABA 10C Expancrete Premix is a cement based product and should be handled and treated with caution. Avoid contact with eyes and wear face mask to prevent dust inhalation. Seek immediate medical assistance should irritation or ingestion occur.

### **Disclaimer**

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

### **Technical Data**

Flow Consistency	ASTM C1437-00	30 – 45%
Compressive Strength	ASTM C109-02	>40 N/mm <sup>2</sup>
Volume Change	ASTM C827-01a	No change
Setting Time	BS EN 196: PT 3-95	
Initial Set		>1 hour
Final Set		< 4 hour
Bond Strength	BS EN 12615-99	>1.5N/mm <sup>2</sup>



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