

## TECHNICAL DATA SHEET

### **SOLIDCURE**

#### ***Non-Shrink Self Leveling Cementitious Grout***

#### **PRODUCT DESCRIPTION:**

**SOLIDCURE** is a non-shrink, cement-based, high strength developing grout which is specially formulated for use in critical grouting operations and concrete spalling repair where positive expansion and self-leveling characteristics are required.

**SOLIDCURE** is an economical and easy to use material requiring the addition of water to produce a free-flowing non-shrink grout.

#### **CUSTOMER BENEFITS**

- Ease of applications
- Positive expansion to ensure effective contact and support
- Minimal downtime
- Elimination of site batching errors
- High early strength and low permeability
- Elimination of staining or deterioration
- Chloride-free permitting use in contact with reinforced steel

#### **AREAS OF APPLICATION**

- To provide heavy duty support beneath load bearing units
- Grouting of precast wall panels
- Anchor bolt fixing
- Bedding bearing plates
- Concrete repairs and pressure grouting

#### **INSTRUCTION FOR USE**

##### **SURFACE PREPARATION**

All surfaces must be clean and sound and free from all surface laitance, oil and grease. Acid etching or grinding may be used to remove cement laitance.

Wet surfaces (no pounding) before application. Allow water drainage in the under-plate grout form work.

##### **FORMWORK**

The formwork should be constructed to be leak-proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints.

#### **MIXING**

A mechanically powered grout mixer should be used for best results.

Measure the required amount of water accurately and add into the mixer. **SOLIDCURE** should be slowly added and continuous mixing should take place for 5 minutes or until the right consistency is achieved. Exact and consistent mixing duration is recommended for each operation to obtain consistent results.

Please note that the amount of water must be accurately measured. Excessive water may render lower performance of the non-shrink grout.

#### **PLACING**

Make sure that the necessary formwork is firmly placed and watertight.

Pour grout within 20 minutes after mixing to gain full benefit of the expansion process. During the pouring process, ensure that a good hydrostatic head is maintained to keep the flow of the grout continuous and entrapped air displaced by the grout is allowed to escape.

**SOLIDCURE** may be placed in thickness up to 100mm in one pour.

For thicker sections more than 100mm, it is necessary to use well-graded aggregates typically a 10mm size to minimize heat buildup. Quantities of aggregate added to the mix should not exceed one part aggregate to one-part **SOLIDCURE** by weight.

#### **CURING**

On completion of the grouting operation, exposed areas should be thoroughly cured by means of water application or **CURESIL WB** curing membrane.

#### **PROPERTIES**

Typical results at a flowable consistency (0.18 water/powder ratio):

Compressive Strength (ASTM C109/ C109M – 13)	
1 day	3,500 psi
7 days	7,500 psi
28 days	8,000 psi

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#### **ESTIMATING DATA**

A 25 kg bag of **SOLIDCURE** when mixed to a flowable and trowellable consistency will yield the following volumes:

Flowable at 4.0-4.5 L of water : 13.5L of grout

Trowellable at 3.3-3.5 L of water : 12.2L of grout

**Note:** *The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.*

#### **PACKAGING**

**SOLIDCURE** is available in 25 kg bag.

#### **STORAGE AND HANDLING**

**SOLIDCURE** has a shelf life of 12 months if kept in a dry place in sealed bags. If stored in high temperatures and high humidity, the shelf life may be reduced.

#### **PRECAUTIONS**

##### **HEALTH AND SAFETY**

**SOLIDCURE** is not hazardous, but it is alkaline in nature. Protective clothing, dust mask, and glove should be worn during the grouting process.

**SOLIDCURE** is non-flammable.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

##### **WARRANTY AND DISCLAIMERS**

*The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.*