

# FLOWCAST 60

## General Purpose Non-Shrink Cementitious Grout

### Description

**FLOWCAST 60** is a high strength non-shrink cementitious grout. It is consisting of a blend of Portland cement, graded aggregates and special chemical additives to give high flowability, shrinkage compensation and minimize segregation and bleeding. It is designed to require the minimum water content to ensure high early strength and long-term durability.

**FLOWCAST 60** is a general-purpose grout that has excellent characteristics of adhesion, impermeability and chemical resistance. It can be used in several applications such as void filling, grouting under base plates, fence posts, precast elements, etc.

### Features & Benefits

- Pre-packed, easy to mix and apply.
- Shrinkage compensated.
- High early strength.
- Excellent bonding properties
- Good flow characteristics and self-compacting.
- Impermeable and high durability.
- Chloride and sulphate free.

### Uses

**FLOWCAST 60** is designed for general purpose grouting applications such as; floor patching, void filling, steel structure footings, pile head treatment, rigid filling of prefabricated elements, bolt anchoring, precast elements erection, machine foundations..etc.

It is formulated for use at plastic or flowable consistency for filling gaps up to 200mm width.

### Technical Properties

Appearance	Grey Powder
Wet Density	2,100 Kg/m <sup>3</sup> approx.
Initial setting time	1.5-2 hours
Final setting time	3-3.5 hours
Expansion at 24hrs	Max. 1.5%
Water penetration	<10mm

Compressive strength	
After 1 day	≥20 N/mm <sup>2</sup>
After 7 days	≥45 N/mm <sup>2</sup>
After 28 days	≥60 N/mm <sup>2</sup>
Flexural Strength	10 N/mm <sup>2</sup>
VOC	<3.5 g/L

All values are subject to 5-10% tolerance

### Standard Compliance

- ASTM C109/ 109M-11
- ASTM C827, C1107 & C940
- BS 1881, BS 4551& BS 6319 Pt. 3
- UNI 8147

### Application Procedures

#### Surface preparation:

The concrete surface and base plates must be stable as well as free from dust, oil, and grease. Substances reducing the adhesion strength must be removed. Saturate the concrete substrate with plenty of water prior to grouting, it should be dumped with no free water. Use compact and inflexible formwork, avoid any dehydration by presoaking or by applying an appropriate release agent. It should also include outlets for the free soaking water and excess grout.

#### Mixing Instructions:

Pour in to concrete mixer or into container about 3.3-3.5 Ltr of clean water. Add slowly with mixing the 25kg bag of **FLOWCAST 60** and mix for 3 to 5 minutes until a smooth, uniform homogeneous flowable mix is achieved. For mixing use a suitable mixing paddle with a low speed mixer (200-300 rpm).

#### Application Instructions:

Place the grout immediately after mixing into the prepared area in such a manner that the grout has the shortest distance to flow. Pour **FLOWCAST 60** continuously maintaining a constant hydrostatic head

wherever possible. **FLOWCAST 60** is suitable to use with most types of pumping equipment.

Grout should be poured only from one side of the formwork to eliminate possible entrapment of air.

Immediately after grout placing, curing should be done with one of SBI curing compounds (contact SBI Technical team for advice) or cover all exposed grout with clean wet hessian and keep moist.

### Yield / Consumption

13 Ltr/ 25Kg bag at flowable consistency.

### Packaging

**FLOWCAST 60** is available in 25 Kg bags.

### Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

### Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

### Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

REV 00-6002

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