

# EPOCAST 95

## High Strength Flowable Epoxy Grout

### Description

**EPOCAST 95** is a solvent free, three-component free flowing superior epoxy grout. It is consisting of base (A), hardener (B) and selected aggregates (C). When mixed together, the product becomes self-leveling, free flow grout. It is designed for grouting of gap widths up to 150 mm.

**EPOCAST 95** mainly used where high bearing, chemical resistance and mechanical strengths are required in areas with static and dynamic loads.

### Features & Benefits

- Pre-packed, easy to mix and apply.
- Shrinkage compensated.
- High compressive strength and impact resistance
- Durable bond to concrete and steel optimizes load transfer
- Excellent flow characteristics and self-compacting.
- Impermeable and durable.
- Resistance to water and chloride intrusion in wet and aggressive environments.
- High vibration resistance
- Suitable for use in hot and tropical climatic conditions.

### Uses

**EPOCAST 95** is used for free-flowing grouting applications where mechanical properties and chemical resistance requirements of the mixed grout are of high priority.

The product is used in heavy machinery, equipment or structural elements needing maximum bearing support. Large or wide plates requiring precision grouting.

Pile cap waterproofing sealing.

High vast lighting bases.

Crane tracks.

Bridge bearings

Tie rods

Starter bars

Crash barrier posts

Starter bars

Fasteners

Narrow clearance situations including anchor bolts.

### Technical Properties

Appearance	Grey flowable resin
Wet Density	2,000 Kg/m <sup>3</sup> approx.
Pot life	45 min
Co-efficient of thermal expansion	3.52X10 <sup>-5</sup> /°C
Effective bearing area	>85%
Compressive strength	≥95 N/mm <sup>2</sup> @ 7 days
Flexural Strength	25 N/mm <sup>2</sup>
Tensile Strength	13 N/mm <sup>2</sup>
Modulus of Elasticity	15 GPa
Linear shrinkage	0.034%
Chemical resistance	Very good
Abrasion resistance	Higher than concrete
Impact resistance	Higher than concrete

All values are subject to 5-10% tolerance

### Standard Compliance

- ASTM C579 & C531
- ASTM C580 & C1339
- ASTM C307
- BS 6319

### 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.

Concrete must be cured for a minimum of 21 days. Steel bars should be free of rust. Sand blasting or grinding is recommended. Cleaned surface should be protected using TOPSEAL EP or EPOPRIME ZINC primer.

Use compact and inflexible formwork, avoid any dehydration by presoaking or by applying an appropriate release agent.

## Mixing Instructions:

Start mixing by pouring hardener B into base A, the two components must be well mixed to ensure proper chemical reaction.

Use a slow speed drill fitted with suitable paddle to mix the product at low number of turns (200 – 300 rpm).

Mix for few minutes till a homogeneous mixture is obtained, then add component C (filler/aggregate) and mix for 2 – 3 minutes until you get a uniform color mixture.

EPOCAST 95 is supplied in a pre-measured packing. Partial mixing should not be allowed under any condition.

## 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 **EPOCAST 95** continuously maintaining a constant hydrostatic head wherever possible. **EPOCAST 95** 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.

Be careful to the formwork, if there is any leakage; close it by any type of sealant or any suitable way.

Do not apply **EPOCAST 95** if the temperature is higher than 35 °C or less than 5 °C.

## Yield / Consumption

15 Ltr/ 30Kg kit.

## Packaging

**EPOCAST 95** is available in 30 Kg kit.

## 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.

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**SALES OFFICE** : Dubai, Barsha, Rasis Business Center  
**FACTORY** : RAK, Jazerat Al Hamra

Tel.+971 4 3999927  
Tel. +971 7 2210066  
Fax. +971 7 2433821  
P.O.Box 14569  
[www.sbi-me.com](http://www.sbi-me.com) , [info@sbi-me.com](mailto:info@sbi-me.com)