

EPOCAST 80 PC

Flowable Pile Head Re-Profiling Epoxy Grout

Description

EPOCAST 80 PC is a three-component solvent free flowable, impermeable epoxy grout. It is consisting of resin base (A), hardener (B) and special graded aggregates (C). When mixed together, the product becomes free flow grout. It is designed for waterproofing, repairing and leveling of pile heads.

EPOCAST 80 PC is designed to transfer of static and dynamic loads to the foundations, it has excellent impermeability to moisture that gives waterproofing properties in pile cap treatments.

Features & Benefits

- Excellent performance under dynamic and static loads.
- No-shrink with high adhesion to contact surfaces.
- High compressive, tensile and flexural strengths which give very good durability.
- Waterproof characteristics.
- High chemical resistance.
- Excellent stability
- Low creep characteristics under strained loading.
- High early strength gain.

Uses

EPOCAST 80 PC is used for waterproofing and grouting applications where mechanical properties and chemical resistance requirements of the mixed grout are of high priority.

Pile head waterproofing and re-profiling to prevent the chance of underground water to leak the basement.

Narrow clearance situations including rails and anchor bolts.

Filling of holes and concrete cavities. Bridge bearing seats

Technical Properties

Appearance	Grey Paste
Mix Density	1,950 Kg/m ³ approx.
Pot life	60 min
Compressive strength	80 N/mm ² @ 7 days
Flexural Strength	19 N/mm ²

Tensile Strength	10 N/mm ²
Water Penetration	Nil
Bond Strength	Higher than tensile strength of concrete
Abrasion Resistance	Excellent
Chemical resistance	Excellent
Chloride/ Sulphate permeability	Negligible
Impact resistance	Excellent

All values are subject to 5-10% tolerance

Standard Compliance

- ASTM C575 & C579
- ASTM C580
- ASTM C307

Application Procedures

Surface preparation:

Concrete must be cured for a minimum of 21 days. All surfaces must be clean, free from oil, grease, water, paints, dust. Unsound concrete must be removed.

Steel bars should be free of rust. Sand blasting or grinding is recommended. Cleaned surface should be protected using EPOPRIME ZINC Primer.

Formwork must be leak proof, strong and will fixed as EPOCAST 80 PC product is free flowing grout. Coat the formwork form inside with release agent. Extra care should be taken when applying the release agent to avoid coating the top of head pile.

Anchor bolt holes should be clean of all dust, dirt and should be dry.

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 80 PC 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 80 PC** continuously maintaining a constant hydrostatic head wherever possible.

Grout should be poured only from one side of the formwork to eliminate possible entrapment of air. Use a steel trowel to level.

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 80 PC** if the temperature is higher than 35 °C or less than 5 °C.

Yield / Consumption

Approximate 15 Ltr/ 30Kg kit.

Packaging

EPOCAST 80 PC 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 , info@sbi-me.com