

SUPER REP T75

High Strength Fiber Reinforced Shrinkage Compensated Repair Mortar

Description

SUPER REP T75 is a one component polymer modified cement base mortar, designed as a high-quality repairing mortar. It is composed of high resistance hydraulic binders, silica, fiber reinforced, high quality graded aggregates and special additives, which gives a high strength, shrinkage compensated mortar. It possesses excellent bond characteristics to steel reinforcement and to concrete. SUPER REP T75 has low permeability and extreme durability.

Features & Benefits

- Shrinkage compensation reduce the risk of cracking.
- Ready to use just required mixing with water
- Excellent adhesion to all concrete substrates.
- High impact and abrasion resistant.
- High mechanical properties (compressive & flexural strength)
- Thixotropic, suitable for vertical and overhead repairs.
- Low permeability provides protection against chlorides, atmosphere gases and salts penetration.
- Free from chloride, sulphate or asbestos.

Uses

SUPER REP T75 is designed to provide a structural grade repair mortar particularly in situations where abrasion resistance and imperviousness are required such as:

- All types of structural repair.
- Repairs to reinforced or pre-stressed beams or columns.
- Highly trafficked surfaces, particularly transition strips adjacent to mechanical bridge joints.
- Repairs in marine environments or other situations, where concrete is in contact with chloride or sulphate solutions.
- Repairs in industrial areas, especially if exposed to mineral oil or lubricants.

Technical Properties

Consistency	Thixotropic mortar
Density	2,150 Kg/m ³ approx.
Workability time	30 minutes @ 25 °C
Adhesion to concrete @ 28 days	2.0 N/mm ²
Compressive strength	55 N/mm ² @ 7 days 75 N/mm ² @ 28 days
Flexural Strength	>10 N/mm ² @ 28 days
Tensile Strength	4.5 N/mm ² @ 28 days
Chloride migration coefficient	1X10 ⁻¹² m ² /s
Water impermeability	5mm
Water Absorption	4%
Drying Shrinkage @28 days	<500 macrostrain

All values are subject to 5-10% tolerance

Standards Compliance:

- BS 1881 Pt. 116
- ASTM C109, C952, C1202, C157
- BS 6319 Pt. 7, BS EN 12390 Pt. 8
- DIN 1048

Application Procedures

Surface preparation:

All surfaces must be sound, clean, compact, free from dust, grease substances and inconsistent parts. As part of surface preparation, it is strongly recommended to expose the fine aggregates of the concrete surfaces by brushing it with a steel brush or light blasting.

The area to be reinstated using **SUPER REP T75** should be cut back to a depth of at least 10 mm to avoid "feather edging". It is advisable to neatly delineate the repair boundary by saw cutting to a depth of 10 mm.

All corroded steel should be completely cleaned. It is recommended that grit blasting be used to clean the reinforcing. Once the reinforcing steel has been cleaned it should be coated immediately with EPOPRIME ZINC (zinc rich primer).

Once the surface is ready, saturate the surface thoroughly with clean water. Allow the surface to be in

moist condition during the application of **SUPER REP T75**. No excess water on the surface should be allowed. In some cases of weak substrate, it is recommended to prime the surface with ULTRABOND AR.

Mixing Instructions:

To prepare the mortar, pour 3.5 liters of clean water into container and add slowly the content of **SUPER REP T75** (25 Kg.). Mix using spiral paddle in slow speed heavy duty drill for few minutes till a homogeneous lump free consistency mix is achieved. Always add powder to water and not the other way around.

Application Instructions:

Apply the mortar manually with a trowel, spatula. The product remains workable for 30 minutes at temperature of +25°C.

The minimum applicable coat thickness is about 10 mm, and the maximum for vertical applications is about 60 mm. On horizontal surfaces, repair thickness can reach up to 100 mm per layer.

If the application of a second coat is necessary, the first coat must be applied directly roughened to increase bonding with the second coat. After application, avoid rapid evaporation for the water of mix. apply one or two coats of one of SBI curing agent products

Yield

A 25kg bag of **SUPER REP T75** will yield approximately 12.8 Liters of mortar.

Packaging

SUPER REP T75 is available in 25kg bag.

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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