

TECHNICAL DATA SHEET

HARDCRETE 510

Cementitious Compound for Re-instatement of Concrete Pavements 10mm Thickness at 5000 psi

PRODUCT DESCRIPTION:

HARDCRETE 510 is a cementitious pre-packed repair mortar specially designed for resurfacing, patching, and repairing large areas of concrete at a minimum thickness of 10mm. It is supplied as a single component powder, which only needs mixing with a specific quantity of water to produce a non-shrink and rapid strength-gain mortar. It is based on a blend of special cement, modifying additives to control the rate of setting and strength gain, and selected hardwearing aggregates.

CUSTOMER BENEFITS

- Pre-packed - easy to mix and apply
- Shrinkage compensated
- Special formulation accelerates strength development.
- Abrasion and weather resistant

RECOMMENDED FOR:

- General patching repair work
- Patching and repairing damaged concrete surfaces
- Resurfacing of worn-out concrete floors
- Topping of new and old concrete floors
- Ideal repair works for driveways, warehouses, car parks, loading bays, concrete roads, etc.
- Recommended for a minimum thickness of 10mm.

INSTRUCTIONS FOR USE

SURFACE PREPARATION

The substrate must be clean and sound, free of dust, and loose particles. Laitance, oil, and grease must be removed from concrete surfaces by scabbling, grit blasting, or other means. Defective and unsound substrates have to be removed and repaired prior to the application of **HARDCRETE 510**.

PRIMING

The prepared areas should be saturated by water a few hours before the application of **HARDCRETE 510**. All excess water should be removed and all surfaces must be primed by **HARDCRETE FIX**.

Note: Do not wait for the bonding agent to dry. The mortar must be applied when the adhesive is still fresh

HARDCRETE 510
01.24 Version 0.0

MIXING

Measure 3.75 to 4.5 liters of water into a clean container. Slowly add 25kgs **HARDCRETE 510** into the container and mix slowly with a low-speed mechanical mixer until a homogeneous and lump-free mix is obtained.

APPLICATION

Place the mixed material evenly over the primed substrate and tamp into place using a trowel or a wood float to ensure full compaction but should not be overworked. Strike off the surface to the correct level and finish with a steel trowel. If a textured finish is required, this can be done with a sweeping brush.

CURING

Rapid moisture loss from the exposed surface may result in plastic cracking. **HARDCRETE 510** requires curing in accordance with good construction practices. As soon as trowelling has been completed, apply **CURE SIL WB** to the finished surface by spray or soft brush.

PROPERTIES:

Compressive Strength : 5000 psi (28 days)
(ASTM C109/C109M-21)

ESTIMATING DATA

A 25 kg bag of **HARDCRETE 510** mixed with 3.75 – 4.5 liters of water covers approximately 1.25 sqm @ 10mm thick.

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

HARDCRETE 510 is available in 25 kg plastic bags.

STORAGE AND HANDLING

HARDCRETE 510 has a shelf life of 12 months if maintained in dry storage conditions in unopened bags.

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PRECAUTIONS

HEALTH AND SAFETY

Gloves, goggles, and dust masks should be worn. Any splashes to the skin should be washed thoroughly after handling. Avoid eye and unnecessary skin contact, as the product is alkaline. In case of eye contact, flush with plenty of clean water.

HARDCRETE 510 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.