

TECHNICAL DATA SHEET**HARDCRETE 510****Cementitious Compound for Re-instatement of Concrete Pavements 10mm Thickness****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 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
- Excellent adhesion to concrete

RECOMMENDED FOR:

- General patching repair work
- Patching and repairing of 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

PROPERTIES:

Compressive Strength @28 days: 5000 psi
(ASTM C109/C109M-13)

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 substrate has to be removed and repaired prior to the application of **HARDCRETE 510**.

Priming

Prior to placing, the prepared areas should be saturated by flooding water few hours before the application of **HARDCRETE 510**. All excess water should be removed and all surfaces must be primed by CEMENT GRIP.

N.B. Do not wait the bonding agent to dry. The mortar must be applied when the adhesive is still fresh

Mixing

Measure 3.0 to 3.5 liters of water into a clean container. Slowly add 25kgs of **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 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 practice. As soon as trowelling has been completed, apply CURESIL WB to the finished surface by spray or soft brush.

ESTIMATING DATA

A 25 kg bag of **HARDCRETE 510** mixed with 3.0-3.5 liters of water yields 12.5 liters (0.0125m³). 25 kgs bag will cover 1.25 sqm @ 10mm thick

PACKAGING

HARDCRETE 510 is available in 25-kg plastic bags.

Important Note:
The information contained in this leaflet is published to the best of our knowledge and is supported by current available data. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. Our guarantee is therefore limited to the quantity of the supplied material.

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STORAGE

HARDCRETE 510 has a shelf life of 1 year if maintained in dry storage conditions in unopened bags.

HEALTH AND SAFETY

Gloves, goggles and dusk mask 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.

FIRE

HARDCRETE 510 is non-flammable

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