

Cempatch Primer

Cementitious steel reinforcement primer and bonding agent



DESCRIPTION

Cempatch Primer is a one component polymer modified cementitious bonding slurry specially formulated to enhance the bond between the Cempatch range of repair mortars and existing concrete substrates.

Cempatch Primer is also designed to protect the steel reinforcement by providing a highly alkaline passivating layer around the reinforcement and by the use of migrating corrosion inhibitor technology, which minimises further corrosion to surrounding steel reinforcement.

APPLICATIONS

Cempatch Primer is designed as a corrosion protection for steel reinforcement in concrete repair and as a bonding slurry between DCP cementitious repair systems and concrete substrates.

ADVANTAGES

- › One component easy to use.
- › High bond strength to concrete and steel.
- › Good physical properties and mechanical strength.
- › Polymer modified system with low VOC.
- › Protection of steel through Migrating Corrosion Inhibitor technology.
- › Good resistance to water and chloride penetration.
- › Safe and environment friendly product.
- › Adjustable consistency for brush and spray application.

METHOD OF USE

SUBSTRATE PREPARATION

The substrate should be sound, clean and free from contamination. Surface laitance should be removed by light scabbling or grit blasting, all damaged and weak concrete should be cut back to reach sound concrete.

Edges where concrete is removed should be cut at an angle of 90° to 135° to reduce the possibility of de-bonding with the top surface of the adjacent sound concrete.

For patch repair, cut back the edges of the repair areas to a minimum of 10 mm depth to avoid thin repair thicknesses. Presoak substrates with water prior to commencing the repair.

Exposed steel reinforcement should be grit blasted, wired brushed, or water-blasted with high pressure to a bright finish to ensure it is clean of all surface contaminants.

TECHNICAL PROPERTIES:

Colour:	Grey powder
Mixed density:	1.75 ± 0.05 g/cm ³
Working time @ 20°C:	1 – 1.5 hr
Application temperature:	5 to 35°C
Consistency:	
Brushable @ W/P	0.31
Sprayable @ W/P	0.35
Minimum application thickness:	2 mm (with two coats)
Tensile adhesion strength: (on concrete) ASTM D4541-02	> 2 N/mm ² (concrete failure)

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. Mix by slowly adding the powder component to water at a rate of 2.5 litres per 8 kg of powder for brushable consistency, and 2.8 litres per 8 kg of powder for sprayable consistency. Mix for about 3 - 5 minutes until a smooth, even consistency is obtained.

APPLICATION

1) *As a steel reinforcement primer with corrosion protection:*
Use a stiff brush or spray gun to apply a 1 mm thick, unbroken first coat to the exposed steel reinforcement clean of all surface contaminants.

Allow the first coat to reach initial set prior to the application of the second 1 mm thick coat, ensuring even consistency.

2) *As a bonding agent slurry:*
Use a stiff brush or spray gun to apply a thick coat to presoaked surfaces. Application of the subsequent render, mortar or screed should take place while the bond coat is still wet (tacky).

DO NOT apply on dry bond coats. (If bond coat dries before subsequent application, roughen the dry coat before applying a further coat of Cempatch Primer slurry).

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Cempatch Primer

Notes:

- » Avoid application in direct sun or strong wind or rain.
- » Care should be taken to ensure continuous application behind the reinforcement bars.
- » Do not add water over recommended w/p ratio.
- » Protect freshly applied material from freezing.

CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

PACKAGING

Cempatch Primer is available in 8 and 20 kg bags.

COVERAGE

Approximately 6 m²/8 kg bag @ 1 mm thickness.

STORAGE

Cempatch Primer has a shelf life of 12 months from date of manufacture if stored at a temperature of 25°C in closed packaging.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND SAFETY

Cempatch Primer should not be ingested. Gloves and eye protection should be worn.
In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice.

For further information, refer to the Material Safety Data Sheet.

FIRE

Cempatch Primer is nonflammable.

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A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.