

Cempatch Primer

Cementitious bonding slurry and steel reinforcement primer with corrosion protection



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 creates a highly alkaline passivating layer around the steel reinforcement and through Migrating Corrosion Inhibitor technology; minimising further corrosion to surrounding steel reinforcement.

Applications

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

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.

Exposed steel reinforcements should be grit blasted or wired brushed to a bright finish to insure it is clean of all surface contaminants.

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.

Mixing

Calculate 2.5 litre of clean water for each 8 kg of Cempatch Primer.

Technical Properties @ 25°C:

Colour:	Grey powder
Mixing ratio:	2.5 ltr water/8 kg bag
Mixed density:	1.75 ± 0.05 g/cm ³
Open time:	10 min
Working time:	1.5 - 2 hr
Initial setting:	4 - 5 hr
Application temperature:	5 - 35°C
Flow:	
Brushable consistency @ W/P	0.31
Sprayable consistency @ W/P:	0.35
Minimum application thickness:	2 mm (with two coats)
Compressive strength: BS EN 12390-3:2002	≥ 35 MPa @ 28 days
Flexural strength: BS 6319-3	≥ 6 MPa
Tensile strength: BS 6319-7	≥ 2.5 MPa
Tensile adhesion strength: (on concrete) ASTM D4541-02	> 2 MPa (concrete failure)
Water permeability: DIN 1048 (5 bars)	0%

Slowly add Cempatch Primer to the clean water while mixing continuously 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 to apply a 1 mm thick, unbroken first coat to the exposed steel reinforcement clean of all surface contaminants.

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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 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).

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 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 swallowed. 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.

More from Don Construction Products

A wide range of construction chemicals 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.

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.

