

Cempatch AB

Acrylic bonding and curing agent for cement mixes and concrete repair



Description

Cempatch AB is a one component modified acrylic liquid co-polymer specially formulated for use as a bonding agent and curing aid for cementitious concrete repair systems. Cempatch AB is designed for maximum performance under the alkaline condition of cement mixes. Unlike PVA systems, the bond film will not hydrolyse under wet conditions and can therefore be used externally, internally and in submerged conditions.

Applications

Cempatch AB is ideally designed for use as a primer and curing aid for Cempatch cementitious repair systems and as a bonding aid for bonding fresh to old concrete.

Advantages

- ▲ One component, easy to use.
- ▲ High bond strength provides excellent adhesion when used as a bonding agent for cement based mixes and Cempatch cementitious repair systems.
- ▲ Suitable for use in hot areas.
- ▲ Can be used internally, externally and for submerged conditions.
- ▲ Can be used as a curing agent eliminating the need for water curing.
- ▲ Outstanding water resistance.

Standards

Cempatch AB complies with ASTM C1059-99, Type I and II, when tested in accordance with test method ASTM C1042.

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. Corroded steel should be fully exposed and cleaned to bright conditions by grit blasting or by wire brush. Exposed steel reinforcements should be protected by applying one full unbroken coat of zinc rich epoxy such as Repcoat ZR and allowed to dry. All surfaces should be presoaked with clean water prior to applying Cempatch AB.

Technical Properties @ 25°C:

Tensile bond strength:	> 2 MPa @ 7 days
Colour:	White emulsion based on modified acrylic emulsion
Film forming time range:	10 - 20 min @ 40°C 30 - 50 min @ 25°C 60 - 120 min @ 15°C
Curing efficiency:	> 55%
Density:	1.01 ± 0.01
pH:	7 ± 1
VOC:	< 15 g/ltr

Note: Film forming time range is also affected by relative humidity and wind

Application

1) As a priming bonding agent:

Cempatch AB should be brushed vigorously into the presoaked surface making sure to fill all pores and voids. Make sure to apply the repair mortar when the film is formed and it is still tacky as mentioned above.

2) As a curing aid:

Cempatch AB can be used as a curing aid over cementitious repair mortars to prevent rapid evaporation of water. In severe hot weather conditions or in windy situation, the use of high efficiency curing agent such as Setseal 44.

3) As a waterproof render:

10 kg of cement is mixed with 5 kg of Cempatch AB and the mix has to be stirred thoroughly until no air bubbles remain in the mix and any lump found in the mix should be removed. If necessary, little water can be used to obtain the required consistency. The mix has to be applied by brush on rendered or prepared surfaces. Two or more coats are recommended. First coat should be allowed to air dry for 5 - 6 hours. The surface should be made wet before application in case of porous structures.

4) As a concrete repair render:

Cempatch AB should be used as gauging liquor for mortars/screeds, maintaining the dosage of 50 kg of Setcrete SB/100 kg cement.



Cempatch AB

Cleaning

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

Packaging

Cempatch AB is available in 1, 5, 10, 20 and 50 kg containers.

Coverage

Approximately 5 - 8 m²/litre when used as a primer.
Approximately 4 - 6 m²/litre when used as a curing aid.

Storage

Cempatch AB has a shelf life of 12 months from date of manufacture if stored in a shaded place at a temperature of 25°C in original unopened packaging.

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

Cautions

Health and Safety

Cempatch AB 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 AB is nonflammable.

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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.

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