

Cembond SB

A Waterproof acrylic modifier and bonding agent for cement mixes and concrete repair



Description

Cembond SB is a one component modified acrylic liquid co-polymer specially formulated for use as a curing agent, bonding agent, waterproof coating when mixed with cement and as a general concrete repair system when mixed with cement and fine sand. Cembond SB 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

Cembond SB is ideally designed for use as a primer and curing aid for cementitious repair systems, bonding aid for bonding fresh to old concrete, brushable waterproof system with outstanding water resistance and a stabilized system which gives high mechanical strength and chemical resistance to cementitious mixes.

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.
- ▲ Prevents salt penetration into concrete.
- ▲ Non toxic system.

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 Cembond SB.

Technical Properties @ 25°C:

| | |
|--------------------------|---|
| Tensile bond strength: | > 1 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 |
| Application temperature: | 10 - 35°C |
| VOC: | < 15 g/ltr |

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

Mixing systems:

| | Slurry brush application water-proof coating | Topping trowel application repair render |
|----------------|--|--|
| Cembond: | 50 kg | 50 kg |
| OPC | 100 kg | 100 kg |
| Fine sand | 0 | 100 kg |
| Mixed density: | 1.75 ± 0.10 | 1.85 ± 0.10 |
| Pot life: | | |
| @ 25°C | 60 - 90 min | 30 - 50 min |
| @ 35°C | 30 - 60 min | 20 - 40 min |

For PPC cement, 52.5 kg of Cembond SB shall be added for each 100 kg of cement to achieve the desired consistency.

Application

1) As a priming bonding agent:

Cembond SB 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.



Cembond SB

2) As a curing aid:

Cembond SB 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 Cembond SB 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.

This system is suitable for basements, toilets, terraces, roofs, swimming pools, water towers,...etc.

4) As a concrete repair render:

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

Cleaning

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

Packaging

Cembond SB is available in 1, 5, and 20 kg containers.

Coverage

Approximately 5 - 8 m²/kg when used as a primer.
Approximately 4 - 6 m²/kg when used as a curing aid.
Approximately 3 - 3.5 m²/kg when used as a waterproofing slurry @ 500 micron thickness per coat.
Approximately 0.4 - 0.45 m²/kg when used as a repair render topping @ 5 mm thickness.

Storage

Cembond SB 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

Cembond SB 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

Cembond SB is nonflammable.

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- ▲ 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.

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