

Cempatch SBR100

Liquid polymer bonding agent for cement containing mixes



DESCRIPTION

Cempatch SBR100 is a one component styrene butadiene rubber latex bonding agent. Cempatch SBR100 is designed to improve the physical properties of cement mixes and slurries.

APPLICATIONS

Cempatch SBR100 is ideally designed for use in the following applications:

- » Bonding of new to old concrete when used as a slurry coat.
- » To produce various traditional cement/sand adhesive mortars such as block mortar, plaster/render and tile adhesive.
- » To produce a mechanical key prior to rendering of various plaster mixes on concrete, brick and block surfaces.

ADVANTAGES

- » Successfully increases the bonding/adhesion of cement mixes.
- » Effective plasticiser giving improved workability and cohesion.
- » Improved mechanical and physical properties by increasing tensile, flexural and adhesive strengths.
- » Good freeze/thaw resistance.
- » Chloride free.
- » Non-toxic, can be used for concrete in contact with potable water.

STANDARDS

Cempatch SBR100 complies with:

- » ASTM C1059-99, Type 1, when tested in accordance with test method ASTM C1042.
- » ASTM C932, for bond strength.
- » ASTM C1438, for compressive strength.

METHOD OF USE

SUBSTRATE PREPARATION

The substrate should be sound, clean and free from contamination. Surface laitance should be removed by acid etching. Exposed steel reinforcements should be grit blasted or wired brushed to a bright finish to insure it is clean of all surface contaminations.

TECHNICAL PROPERTIES @ 25°C:

Colour:	White
Specific gravity:	Around 1.0
Slant shear strength: ASTM C1042-99 Type I (dry)	≥ 5.0 MPa
Tensile bond strength: ASTM C932	≥ 1200 KPa (wet condition)

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

In general, Cempatch SBR100 should be added and mixed with the clean water prior to dry materials for better dispersion.

1) As a bonding agent slurry:

The recommended mix to produce slurry consistency can be achieved by mixing 1 Cempatch SBR100 : 2 OPC cement by volume.

2) As a bonding and waterproofing additive for site mixed cement/sand adhesive mortar:

The following table shows the mix design proposed to improve the adhesion of traditional cement/sand mortars such as block mortar, plaster/render and tile adhesive.

Component	QTY by Volume
Cement	3
Sand	6
Water*	1-3
Cempatch SBR100	1

*Based on type of sand and humidity.



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APPLICATION

1) 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 SBR100 slurry.)

2) As a bonding and waterproofing additive for site mixed cement/sand adhesive mortar:

Apply workable site mixed cement/sand adhesive mortar prepared with Cempatch SBR100 based on best practices method of application for purpose required.

CLEANING

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

PACKAGING

Cempatch SBR100 is available in 5, 25 and 200 litre drums.

STORAGE

Cempatch SBR100 has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C in closed packaging.

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

CAUTIONS

HEALTH AND SAFETY

Cempatch SBR100 is nontoxic. Avoid skin and eye contact. Gloves and eye protection should be worn. The use of barrier cream is recommended on exposed areas of the skin.

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 SBR100 is nonflammable.

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

Note:

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