Cempatch SBR

Liquid polymer bonding agent for cement containing mixes

DESCRIPTION

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

APPLICATIONS

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

- Bonding of new to old concrete when used as a slurry coat.
- To produce polymer modified screeds and floor toppings.
- To produce a mechanical key prior to rendering of various plaster mixes on concrete, brick and block surfaces.
- To produce a repair mortar for patching of honey-combed concrete, internally and externally.
- To produce waterproof renders.

ADVANTAGES

- Successfully increases the bonding/adhesion of cement mixes.
- Excellent waterproof additive which helps produce waterproof renders, screeds and toppings.
- Effective plasticiser giving improved workability and cohesion.
- Improved mechanical and physical properties by increasing tensile, flexural and adhesive strengths.
- Reduces shrinkage and cracking in repair and screeding mixes.
- Good freeze/thaw resistance.
- Chloride free.
- Non-toxic, can be used for concrete in contact with potable water.

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 ensure 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.

TECHNICAL PROPERTIES @ 25°C:	
Colour:	White
Specific gravity:	Around 1.0
Active solid content:	≥ 45%

MIXING

In general, Cempatch SBR 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 SBR : 1 Clean water : 4 OPC by weight.

2) As a bonding and waterproofing additive for site mixed floor screeds, renders, concrete repair and floor patching:
The following table shows the mix designs proposed for the reinstatements of old floors, general purpose patch repair mortar and new floor screeding.

More mixes available in Typical Mix Designs table:

	Thin Section 6 - 15 mm	Thick section 12 - 40 mm
Cement	50 kg	50 kg
Clean sand	125 kg	75 kg
3 - 6 mm aggregate (preferably granite chips)	-	100 kg
Cempatch SBR	4 - 7 ltr	4 - 7 ltr
Water	17 - 19 ltr	17 - 19 ltr
Yield approximately	0.11 m³	0.12 m³

APPLICATION

Once mixing is complete, apply the mix onto the primed area and work well into the substrate. For levelling and consolidating, tamp with a screed bar and then rub with a plastic float. A smooth finish is achieved by light trowelling with a straightedged steel trowel.

If greater depths are required on both vertical and overhead applications, this may be carried out by building up in layers with the surface of the intermediate layer being scratch -keyed and cured prior to the further application of the slurry primer and mortar when the material has set up.

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Typical Mix Designs

Application	Bonding & priming	Patch repair mortar 6 – 50mm	Kerbstones & bedding tiles 6 – 50mm	Waterproof render 6 – 9mm	Heavy duty floor screed & patch repair 10 – 50mm
OPC	2 kg	50 kg	50 kg	50 kg	50 kg
Sand - medium	-	150 kg	125 kg	125 kg	75 kg
Aggregate (ranite)	-	-	-	-	75 kg
Cempatch SBR **Water (approx.)**	1 ltr 1 ltr	10 ltr 8 ltr	12 ltr 7 ltr	12 ltr 6 ltr	10 ltr 6 ltr
Approx. Yield	2.5 - 3 m^3	0.095 m^3	0.085 m^3	0.080 m^3	0.095 m^3

Note: The yields and water contents above are based on dry sand. Actual yields obtained may vary depending on the type of sand and whether it is wet or dry. It is recommended that site trials be carried out with the sands to be used to determine exact yields.

CURING

Use a chemical curing compound or a wet hessian completely covered with a polyethylene sheet for curing.

CLEANING

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

PACKAGING

Cempatch SBR is available in 1, 5 and 20 kg.

STORAGE

Cempatch SBR 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, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Cempatch SBR 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 Safety Data Sheet.

FIRE

Cempatch SBR is nonflammable.

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- Building products.
- Structural strengthening.

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