



Technical Data Sheet

Ecobond SBR50

Water Based Bonding Agent for Modifying Cement and Concrete Repairs

Description

Ecobond SBR50 Bonding Agent is a dispersion polymer of carboxylated styrene butadiene copolymer. It has been extensively used in the building industry for many years in the modification of cementitious systems. Unlike PVA when used in damp areas.

Ecobond SBR50 Bonding Agent comply to ASTM C1059 Type 2 for non-redispersible and should therefore be specified for all external situations.

Applications

Ecobond SBR50 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 screed and floor toppings.
- Bonding of thin polymer modified screeds and/or toppings to old substrates.
- To provide 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 water-proof renders.

Advantages

- Greatly improved adhesion to a wide range of substrates including dense concrete, steel, tiles, etc.
- Mixes may be applied in much thinner sections.
- Excellent resistance to water and protection from carbonation.
- A high level of resistance to salt permeation.
- Much improved toughness and flexibility.
- Reduced surface dusting of concrete.
- Greatly improved resistance to many chemicals.
- Reduction in cracking and shrinkage.

Technical properties

Color	White liquid
Specific Gravity	1.01 ± 0.02
VOC	< 0.50 g/l
Min. application Temperature:	5°C

Method of use

Surface preparation

The Substrate should be sound, clean and free from contamination.

Surface Laitance should be removed by acid etching. Where needed, a water tight formwork should be erected to avoid any grout loss. For patch repair, cut back the edges of the repair areas to a minimum of 10 mm depth to avoid thin repair thicknesses.

Dampen substrates with water prior to commencing the repair.

Exposed steel reinforcements should be grit blasted or wired brushed to a bright finish and protected with epoxy zinc primer.

Mixing

1) Bonding agent:

The recommended mix to produce slurry consistency can be achieved by mixing,

2 Ecobond SBR50 : 3 OPC cement by volume. Use a stiff brush to apply a thick coat to damp surfaces. Application of the subsequent renders, mortar, or screed should take place while the bond coat is still wet (tacky). DO NOT apply on dry bond coats. If the bond coat dries, roughen the dry coat before applying a further coat.

2) Floor screeds, Renders, concrete repair and floor patching:

Mix designs shown below are proposed for the reinstatements of old floors, general purpose patch repair mortar, and new floor screeding:

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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	SCREED 6-12 MM	SCREED 12-40 MM
OPC	50 kg	50 kg
SILICA SAND	125 kg	75 kg
3-6 MM SAND	0 kg	100 kg
ECOBOND SBR50	9 -12 kg	9 -12 kg
WATER	7 -10 kg	7 -10 kg
YEILD	10-11 m ²	10-11 m ²

Fire

Ecobond SBR50 is non-flammable.

Application

Damp the prepared substrate, apply a bond coat and while still tacky apply the screed, repair mortar or render mix using wooden float to place and compact.

Finish with a steel float. Care should be taken for appropriate curing. Use a chemical curing compound or wet hessian completely covered with a polyethylene sheet for curing

Storage

Ecobond SBR50 shelf life is 12 months if stored at temperatures between 5°C and 20°C in original unopened containers.

If these conditions are exceeded, **Envirocon technical department** should be contacted for advice.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

Packaging

Ecobond SBR50 is available in 25 and 210 Liters drums

Cautions

Health and safety

Ecobond SBR50 is nontoxic, it should not be swallowed. Gloves and eye protection should be worn.

In case of accidental contact with the eyes, immediately flush with plenty of water for at least 5 minutes and seek medical advice.

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