PHONE (UK): 0844 669 8339 | PHONE (INTERNATIONAL): +44 844 669 8339
PO BOX 272 LEEDS, WEST YORKSHIRE LS16 0DP | WWW.PERMASHIELD.CO.UK

SBR LATEX

SBR is a water & salt resistant additive for cement mortars. It will bond cement screeds, rendering and plaster to most sound surfaces such as concrete, stone & brick. It improves workability of the mix & after curing imparts water repellence & salt resistance. It also reduces the amount of water required to provide a workable mix & hence produces a more dense render.

System features and benefits

Permashield SBR modified cement based mixes have the following advantages:

- Greatly increased flexural strength
- Tensile strength increased
- Greatly reduced shrinkage (with appropriate aggregate)
- Prevents bleeding
- Lower water-cement ratio
- Increase durability and toughness, improved abrasion resistance. Good frost resistance, abrasion resistance and resistance to water-borne salt penetration.
- Resistant to many chemicals and mineral oils
- Excellent adhesion to steel and concrete.
- Sticks well to brick, glass, asphalt, wood,
- Expanded polystyrene and most building
- Materials
- Enhanced corrosion protection
- Proven performance
- Similar thermal expansion and modulus properties to concrete
- Can be used with potable water.

Where can is be used

Sealing shrinkage cracks. High strength screeding. Flooring in dairies, agricultural floors & animal pens. Bonding of brick slips, tiles etc. External rendering & screeds. Bedding expansion joints. Abrasion resistant surfaces. Pointing brickwork. Repairs to bridge and car park decks.

Surface Preparation

The substrate must be well prepared in order to achieve a clean sound surface that will provide a good mechanical key. The surface should be free of laitance, oil, grease, paint and corrosion deposits.

Oil and grease can be removed with Permashield Heavy Duty Degreasant. Excess laitance should be removed by mechanically scraping. Re-inforcement corrosion must be exposed and all rust & loose scale removed.

When repairing spalled or damaged concrete, ensure that the concrete has been cut back to thoroughly sound materials. Always lay to aminimum6mmdeep saw cut edge, depending upon application. Avoid feather edging.

Priming

Concrete, stone, brick etc should be thoroughly dampened with clean water, with any excess being brushed off. The surface should be primed thoroughly by brushing on a slurry coat of 1 volume SBR Latex admixture & 3 volumes OPC to 1 volume water. “Puddling” must be avoided. If the priming coat dries before the topping is applied, scratch vigorously and re-apply. Renders will initially require two primer coats, applied at right angles across each other. The second coat being applied after the first is dried. Thickness of each coat should not exceed 1.5mm in order to avoid crazing. When both coats have completely dried (minimum period 48 hours) further primer coat should be applied at right angles to the last coat and whilst still wet the render applied. Maximum thickness per layer is 7mm, leaving a rough finish, the final coat being finished with a steel trowel float.

Coverage priming coat: 3.5 – 5.0m2 per litre.

SBR LATEX

PHONE (UK): 0844 669 8339 | PHONE (INTERNATIONAL): +44 844 669 8339
PO BOX 272 LEEDS, WEST YORKSHIRE LS16 0DP | WWW.PERMASHIELD.CO.UK

General Application

Stir well. Easy to apply by brush or roller. Also suitable forapplication by spray. Do not apply in temperatures below 10ºC or externally when rain is imminent.

Mix 1 – Patch repair, screeding, re-pointing brickwork
50kg Cement (OPC)
125kg Sharp sand (zone 2)
7lt SBR Latex Admix
9lt Water (approximately)
Yield approx 0.1m3

Mix 2 – Heavy Duty Floor Topping – 12-25mm thickness
50kg Cement (OPC)
75kg Sharp sand (zone 2)
75kg 3-6mm granite chippings
8lt SBR Latex Admix
9lt Water (approximately)
Yield approx 0.1m3
For screed over 25mm in thickness the proportion of SBR Latex Admix can be reduced.

Mix 3 – Weatherproof bonding, brick slips, copings etc
50kg Cement (OPC)
125kg Sharp sand (zone 2)
9lt SBR Latex Admix
8lt Water (approximately)
Yield approx 0.1m3
Support will be required for 24 hours on vertical application

Mix 4 – Waterproof renders
50kg Cement (OPC)
150kg Sharp sand (zone 2)
8lt SBR Latex Admix
8lt Water (approximately)
Yield approx 0.1m3

Cleaning

Remove as much product as possible from application equipment before washing. Replace lid firmly. Wash equipment immediately with water. Do not empty product into drains or watercourses.

Technical information

PACK SIZES: 5, 10, 20 & 25TL

Appearance: Milky white liquid
Composition: Styrene-butadiene co-polymer latex
Compressive Strength: 45 to 50N/mm2†
Tensile Strength: Up to 6.5N/mm2†
Flexural Strength: Up to 13N/mm2†
Water Vapour Permeability: Less than 4g/m2/24hour through an 11mm thick test piece
Adhesion: Excellent to concrete, steel, brick, glass etc
Coefficient of thermal expansion: 20°C to + 20°C/12.8 x 10
Chemical Resistance: Resists mild acids, alkalis, sulphates, chlorides, urine, dung, lactic acid, sugar etc
Shrinkage during cure: 0.01% to 0.02%
Resistance to water pressure: 30m head – Excellent – no water penetration through a 15mm thick test piece.

Health & Safety infomation

- Ensure good ventilation during application and drying.
- SBR Latex Admix is non-toxic. However it should not be ingested. If it comes into contact with the eyes wash immediately with copious amounts of water and seek medical treatment. SBR Latex admix is slightly alkaline, skin contact should be avoided, gloves and protective clothing should be worn.
- Avoid contact with skin and eyes. When applying it is advisable to wear eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water or a proprietary skin cleaner. Do not use solvent, thinners or white spirits.
- Keep out of reach of children. Do not use or store by hanging on a hook. Do not empty into drains or watercourses. Some local authorities have special facilities for disposing of waste paint.
- Avoid release to the environment. Before use refer to the safety data sheet.
- Avoid the inhalation of dust. Wear a suitable face mask.
- Read the label.

Disclaimer: The information given in this Data Sheet is for guidance only and is correct to the best of our knowledge. Any person using these products does so at their own risk and we cannot accept liability for the performance of the product, nor for any loss or damage. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not considered a warranty or quality specification.