



Sovereign SBR Bonding Agent

Sovereign SBR 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



Product Code
30806215

Description

Unlike PVA when used in damp areas, SBR Bonding Agent will not re-emulsify and should therefore be specified for all external situations.

Sovereign SBR Bonding Agent contains antifoam to help prevent excessive air entrainment and an antioxidant to give extended durability.

Form Supplied: Milky white liquid

Pack Size: 5 kg

Contains: 47% Styrene butadiene

pH: 9.0 - 11.0

S.G.: 1.01

Properties

Can be used in both renders and floor screeds and is an integral part of the Hey'di K11 Tanking System. Renders and screeds show greatly improved adhesion to the substrate, reduced cracking and surface dusting. Furthermore, resistance to water and the passage of salts is greatly improved making it ideal for external use. Sovereign SBR Bonding Agent can also be used as a primer and sealer to improve inter-coat adhesion between successive layers.

When used in concrete repair the addition of Sovereign SBR Bonding Agent greatly enhances the resistance of the concrete to carbonation and protects steel from corrosion. Its use in screeds allows work to be carried out in much thinner sections whilst maintaining performance levels.



PROPERTIES CONTINUED

Incorporating SBR Bonding Agent into cement-based systems gives numerous advantages, chiefly among these are:

- ✓ Greatly improved adhesion to a wide range of substrates including dense concrete, glass, 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.
- ✓ Reduced water:cement ratio for equivalent workability.
- ✓ Improved frost resistance.
- ✓ Reduction in cracking and shrinkage.
- ✓ Corrosion protection of steel.

PRIMER SYSTEMS

SBR Bonding Agent can be used to control the suction of highly porous substrates and prevent dusting or as a bonding coat for use over glass, tiles, steel, concrete and brick or timber.

PRIMER COAT

SBR Bonding Agent	1 Part
Water	5 Parts

Apply the primer to porous backgrounds. Render can then be applied to either wet or dry primer.

SEALER COAT

SBR Bonding Agent	1 Part
Water	3 Parts

Apply to the rear and edges of timber before fitting and tiling to reduce moisture ingress. Do not prime the face to be tiled.

BONDING COAT

SBR Bonding Agent	1 Part
Water	1 Parts
OPC	1 ½ Part

Mix the water and SBR Bonding Agent and then slowly add the cement until a creamy mix is obtained. This can then be applied to surfaces with a brush to vastly improve the adhesion of subsequent coats. Render, screed etc., must be applied whilst the bonding coat is still tacky i.e. within 20 minutes. If the bonding does dry then reapply more before continuing. This mix should have a pot life of at least 1 hour. All tools and equipment used must be cleaned immediately after use, as the bonding coat is extremely difficult to remove once dry.

This bonding coat is also ideal for use in tiling onto difficult substrates such as glazed tiles, vinyl tiles, glass and metal. Again, the adhesive must be applied whilst the bonding coat is still tacky

SBR Bonding Agent can also be added to cement based adhesive and grout to improve adhesion and wear properties. Dilute the Bonding Agent 1:3 with water and use as the gauging solution.

CONCRETE REPAIRS

For small patch repairs of concrete and steel reinforced concrete using Sovereign Bonding Agent will provide:

- Reduced thermal stresses because the coefficient of thermal expansion is similar to that of unmodified concrete.

- Protection of background concrete from carbonation.
- Improved durability.
- Improved adhesion to the background.
- Corrosion protection of the steel.

Prepare any unsound concrete to give at least 5 mm depth of repair (10 mm over reinforcing). Wire brushing or shot blasting may be necessary to remove all signs of corrosion. Where corrosion is excessive, the opinion of a structural engineer should be sought.

REPAIR MIX

SBR Bonding Agent	0.2 Parts
Moist Sand	2.5 Parts
OPC	1 Part

This is suitable for most repairs; however, where the final covering of steel is less than 15 mm or there are known chlorides in the concrete the amount of Sovereign Bonding Agent should be increased to 0.3 Parts. This level should also be used in extremely exposed conditions

RENDERS

External renderings commonly provide difficulties and failure rates can be high. Problems associated with external render are usually caused by poor bond to the background, cracking and low durability.

Incorporating Sovereign Bonding Agent in to the system, both as a bonding coat and in the render will overcome these problems.

As with all coating, substrate preparation is key. Clean back the substrate to sound and any loose mortar should be raked out and re-pointed.

SPATTERDASH MIX

SBR Bonding Agent	1 Part
Coarse Sand	2 Parts
OPC	1 Part

Mix well, apply by dashing, ensure complete coverage to a thickness of 3 mm, and allow to dry. This mix can also be used for stippling.

EXTERNAL RENDER

SBR Bonding Agent:Water	1:3
Sand	3 - 4
OPC	1

Scratch the first coat and allow to dry. Subsequent coats should be thinner/weaker..

SCREEDS

Incorporating Sovereign Bonding Agent into a floor screed will give enhanced qualities to the floor such as adhesion, flexural strength, water and abrasion resistance and allowing thinner sections to be laid.

When laying screeds the correct surface preparation is vital to success. All surface contamination must be removed such as paint, oil or grease. Mechanical preparation of the surface is ideal using such as shot blasting, scabbling and planning which should expose the aggregate and leave a stable surface. One point worth mentioning is that these techniques can sometimes leave a dust on the surface. If this is, the case this should be power washed off.

Apply a bonding coat and lay the screed whilst this is still tacky. The quantity of Sovereign Bonding Agent to add to the screed is dependent upon the thickness to be laid and the mix design. The following table gives some guidance. Apply a bonding coat and lay the screed whilst this is still tacky. The quantity of Sovereign Bonding Agent to add to the screed is dependent upon the thickness to be laid and the mix design. The following table gives some guidance.

Screeds	6 - 12 mm	12 - 25 mm	Up to 40mm
Cement	50 kg	50 kg	50 kg
Sharp Sand	125 kg	150 kg	150 kg
Bonding Agent	9 kg	7 kg	5 kg
Yield	0.12m ³	0.12m ³	0.12m ³

Topping	Granite 12 - 25 mm	Granite >25 mm	Fine Concrete 40mm
Cement	50 kg	50 kg	50 kg
Sharp Sand	75 kg	150 kg	100 kg
Granite Chip	75 kg	75 kg	-
Pea Shingle	-	-	100 kg
Bonding Agent	9 kg	5 kg	5 kg
Yield	0.12m ³	0.12m ³	0.12m ³

Storage: Between 5°C - 25°C.

Shelf Life: 12 months when stored correctly in unopened containers.

HEALTH AND SAFETY

- ! Keep locked up and out of reach of children. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable protective gloves & eye/face protection.
- ! In case of accident or if you feel unwell seek medical advice immediately (show label where possible).



Health & safety information available on request



Important Disclaimer

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