KingBond® SBR100

Liquid polymer bonding agent additive for cement containing mixes.

DESCRIPTION

KingBond SBR100 is a single component styrene butadiene rubber latex. KingBond SBR100 is designed to improve the physical properties of cement mixes and slurries.

APPLICATIONS

KingBond SBR100 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

- Effectively increases the bonding/ adhesion of cement mixes.
- Excellent water proof additives which help produce water-proof renders, screed and toppings.
- Effective plasticizer, 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.

STANDARDS

KingBond SBR100 complies with ASTM C1059-99, Type 1 & 2, when tested in accordance with test method C1042.

METHOD OF USE

Substrate 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

TECHNICAL PROPERTIES

Active solid content:	48 - 50 %
Specific gravity:	Around 1.0
Colour:	White
Slant shear strength	
Type 1 (dry cure) Type II (after immersion)	

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

Bonding agent:

The recommended mix to produce slurry consistency can be achieved by mixing, 1 KingBond SBR100 : 1 clean water : 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 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:

	Thin Section 6 - 15 mm	Thick section 12 - 40 mm
Cement	50 kg	
Clean sand	125 kg	75 kg
3 - 6 mm aggregate (preferable granite chips)	-	100 kg
KingBond SBR100	4 - 7 ltr.	
Water	12 - 15ltr.	
Yield approximately	0.10 m²	0.11 m²

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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.

CLEANING

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

PACKAGING

KingBond SBR100 is available in 5, 25 and 200 litres drums.

STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.
® = Registered trademark of the KingKrete-Group in many countries.

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Disclaimer: the IAS mark relates to certified management system and not to the product mentioned on this datasheet