

# KingBond® SBR400

Liquid polymer bonding agent for cement containing mixes.

## DESCRIPTION

KingBond SBR400 is a one component styrene butadiene rubber latex bonding agent. KingBond SBR400 is designed to improve the physical properties of cement mixes and slurries.

## APPLICATIONS

KingBond 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.

## STANDARDS

KingBond SBR400 complies with ASTM C1059-99, Type I and II, when tested in accordance with test method ASTM C1042.

## 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 insure it is clean of all surface contaminants.

## TECHNICAL PROPERTIES @ 25°C:

Specific gravity:	Around 1.0
Colour:	White
Slant shear strength: ASTM C1042-99 Type I (dry)	≥ 2.8 MPa
Type II (after immersion)	≥ 8.6 MPa

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.

## MIXING

In general, KingBond SBR400 should be added and mixed with the clean water prior to dry materials for better dispersion.

### As a bonding agent slurry:

The recommended mix to produce slurry consistency can be achieved by mixing 2 KingBond SBR400 : 1 clean water : 3 OPC cement by volume.

**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.

	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 (preferable granite chips)	-	100 kg
KingBond SBR400	5 - 10 ltr	5 - 10 ltr
Water	11 - 14 ltr	11 - 14 ltr
Yield approximately	0.10 m <sup>3</sup>	0.11 m <sup>3</sup>

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## APPLICATION

### As a bonding agent slurry:

Use a stiff brush to apply a thick coat to presoaked surfaces. Application of the subsequent render, 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 before subsequent application, roughen the dry coat before applying a further coat of KingBond SBR400 slurry.)

**As a bonding and waterproofing additive for site mixed floor screeds, renders, concrete repair and floor patching:** Apply the screed, repair mortar or render mix using wooden float to place and compact while the bond coat is still wet (tacky). Finish with a steel float.

## CURING

Care should be taken for appropriate curing. Use a chemical curing compound or a 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 SBR400 is available in 5 and 25 litre 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 manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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## SBR400-R3-2601

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.