

Product Data Sheet

CasTech Bond SBR

Nov-2025, Ver. 01.01



Styrene Butadiene Rubber Based Bonding Agent

DESCRIPTION

CasTech Bond SBR is a styrene-butadiene rubber based bonding agent and waterproofing additive for cementitious mortars, screeds and renders.

STANDARDS

ASTM C 1059 Type II, ASTM C 932.

TYPICAL USES

- Bonding agent for slip bricks, ceramic tiles, screeds, plasters and concrete
- Bonding agent for patch repair mortar
- Additive for cementitious mortars where higher bonding is required for screeds, mortar and tiling
- Waterproofing and tanking
- Waterproofing slurry when mixed with cement

ADVANTAGES

Key advantages:

- Excellent bonding to concrete, masonry, brick, plaster and wood
- Increases tensile and flexural strength of screed and mortar
- Enhanced corrosion protection
- Excellent water resistance
- Suitable for internal and external application in conjunction with cement
- Environment friendly, non-toxic and chloride free

TYPICAL PROPERTIES

Appearance	Milky White Liquid
Specific Gravity (ASTM D 1475)	1.02 ± 0.02
Compressive Strength (ASTM C 109)	10 – 15% increase over control
Flexural Strength (BS 6319-3)	5 – 10% increase over control
Tensile Strength (BS 6319-7)	5 – 10% increase over control
Tensile Bond Strength (ASTM C 932)	> 1.0 N/mm ² at 28 days
Slant Shear Bond Strength (ASTM C 1042)	> 8.6 N/mm ² at 28 days

SURFACE PREPARATION

The surface must be clean, sound and free from laitance, oil, grease, curing membranes, primers from previous

membrane systems, bitumen and other loose materials. Remove bitumen or primers by sand blasting or mechanical means. Saturate absorbent surfaces thoroughly with water, but avoid ponding. Clean exposed rebar to a bright condition by grit or sand blasting.

MIXING

As a bonding slurry coat: add **CasTech Bond SBR** to the pre-measured water in a suitable container and stir well. Add cement slowly and mix well using a slow speed drill fitted with a paddle.

As an additive: manual mixing is not recommended; use a forced action mixer or low speed drill with a paddle. Dry blend the cement and sand for one minute, add the premixed **CasTech Bond SBR** and clean water, and continue mixing for 3 minutes until homogeneous. Small adjustments to the water are allowed, but do not significantly exceed the dosages below.

Repair mortar (6 – 40 mm):

10 L **CasTech Bond SBR**, 8 – 12 L clean water (as per required consistency), 50 kg OPC, 150 kg sand.

Floor screed (30 – 70 mm):

10 L **CasTech Bond SBR**, 6 – 10 L clean water, 50 kg OPC, 100 kg fine aggregate, 50 kg 10 mm down aggregate. The screed should be semi dry.

Render (6 – 15 mm):

10 L **CasTech Bond SBR**, 6 – 10 L clean water, 50 kg OPC, 150 kg fine sand. The render should be semi dry and cohesive.

Note: the above proportions can vary as per site mix design requirements.

APPLICATION

As a neat bonding agent: stir **CasTech Bond SBR** well and apply by brush, roller or spray, spreading evenly over the entire surface. Place the material to be bonded while **CasTech Bond SBR** is still tacky.

As a bonding slurry coat: apply slurry made of **CasTech Bond SBR**, water and cement in the ratio 1:1:1 by weight using brush or roller.

As an additive: **CasTech Bond SBR** modified mortars, toppings and renders must be well compacted onto the prepared substrate by trowel, and exposed reinforcement completely encapsulated. Modified mortars can be applied at 6 – 40 mm thickness; where thicker sections are built up, key and prime the intermediate layers.

CURING

All cementitious materials modified with **CasTech Bond SBR**

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should be cured with mist water spray, moist curing with wet hessian, or an appropriate curing compound from the CasTech Cure range.

COVERAGE

As a neat bonding agent: 5 – 7 m²/litre/coat; actual coverage depends on texture and porosity of the substrate. As an additive for tile adhesives, bedding mortars, sand-cement renders, plasters and screeds, the dosage may vary from 10 – 20% by weight of cement.

PACKAGING

5 litre, 20 litre and 200 litre containers.

STORAGE AND SHELF LIFE

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

HEALTH AND SAFETY

PPE: Suitable protective goggles, gloves and mask must be worn.

Precautions: In case of contact with eyes, rinse immediately with plenty of water; in case of contact with skin, wash off immediately with soap and water. If swallowed, seek medical attention immediately.

Hazard: Regarded as non-hazardous for transportation.

Disposal: Do not reuse containers. Dispose of as per local rules and regulations.

Additional information: Refer to MSDS (available on request).

TECHNICAL SUPPORT

CasTech provides on-site assistance and consulting services on projects when requested. Technical data sheets on other CasTech products and guidance on their use are available on request.

CasTech MIDDLE EAST FZE

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