K2 BOND SBR

Styrene Butadiene Rubber Based Waterproof Coating, Repairs and Bonding Agent for Concrete & Mortar

Description:

K2 BOND SBR is a modified Styrene Butadiene Rubber based polymeric compound designed for use with cement matrix. It is used for high performance application in waterproofing and repair. It bonds strongly old & new concrete and too plasters. It is used with cement as a reliable water resistant bonding agent. It is designed to improve the physical, mechanical and chemical resistance properties in the fresh and hardened stage.

Area of Application:

K2 BOND SBR is used as a bonding agent between old & new concrete, for cementitious substrates, waterproof coating for small areas in bathrooms, balconies, basements, Water tanks, Swimming pools, Retaining walls, Bridge wall, Tunnels, industrial floors, dams, fountains, terraces & roofs. It is also effective to make repairs mortars & concrete in building rehab works.

Benefits:

- Very good adhesion to concrete surface.
- Ease of application- brush applied.
- Economical and Excellent waterproofing coating.
- Excellent adhesion to reinforcement and concrete.
- Increases flexural strength & tensile strength of concrete & mortar.
- Reduces shrinkage & water permeability in concrete & mortar.
- Good as a bonding agent in repairs & renovations.
- Improves abrasion resistance of the cement mix.
- Reduces viscosity of cement injection grout for better fluidity & bonding.
- Single component liquid which improvises cohesion and workability and easily gauged as required.
- Hydrolysis resistant and is ideal for internal and external application with cement.
- Free from chloride admixtures. Improve the quality of site batched cementitious mortar and slurries.

Technical Properties:

Properties	Results
Composition	Styrene Butadiene Rubber
Appearance	Milky White color liquid
Specific gravity	1.01 ± 0.002
P^H Value	7 to 9
Solid	35 ± 1.75%
Compatibility	Compatible with all grades of cement

Application Instruction:

SURFACE PREPARATION

- Clean the surface with the wire brush or scrubber to remove hidden dirt, loose particles, laitance & dust. Degrease the surface by using suitable K2 Multiclean / K2 Softclean.
- Repair the spalled concrete portion of a saw, cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provide a strong bond.
- Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by lightly scrabbling or grit blasting.
- For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove any excess of water prior to application

WATERPROOF COATING

- For a waterproofing coating Mix K2 Bond SBR: Water : Cement in the ratio 1:1:3 by volume
- Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding cement to K2 BOND SBR until the required consistency is achieved.
- Brush applies 2 coats of the mix in a span of 4-6 hours on the prepared concrete substrate. Overlay the coating with a protective screed to the desired slope & thickness bonding primer.

BOND COAT

- For a bonding primer coat of K2 Bond SBR: Cement in the ratio 1:1 by volume.
- Brush applies 1 continuous coat of the mix on the prepared concrete substrate. Ensure to overlay the repair mortar when the bond coat is still tacky.

REPAIR MORTARS & RENDERS

- A suitable mix ratio for patching repair mortar or render is as follows:
- Mix design - Portland cement: 50 kg, Washed sand: 150 kg, K2 Bond SBR: 6-7.5 Liter & Water: 10 Liter.
- The minimum thickness of applied K2 BOND SBR mortar should be 6 mm and up to 40 mm.

FLOOR SCREEDS & PCC

- A suitable mix ratio for patching repair mortar or render is as follows:
- Mix design - Portland cement: 50 kg, Washed sand: 75kg, 6mm downsize aggregates: 75 kg, K2 Bond SBR: 6-7.5 kg & Water: 10 Lit
- The minimum thickness of applied K2 BOND SBR screed should be 10 mm and up to 40 mm.

MIXING & APPLICATION

- A forced action mixer is essential (PAN Mixer) & recommended to ensure that K2 BOND SBR mortar is thoroughly mixed. Use a suitable sized drum with heavy-duty an electrical drill machine fitted with spiral paddle mixer at slow speed of 400-500 rpm.
- Hand mixing is permissible only for 25 kg or less quantity Charge the mixer with required quantity of clean & dry sand(or coarse aggregates as needed), cement & mix for 1-2 minutes, then add the recommended dosage of K2 BOND SBR dispensed in water which is pre-batched. Mix for 2-3 minutes to avoid air entrapment. Keep on slowly adding water until the required consistency is achieved.

Coverage:

- As a waterproofing coating 35 to 40 sq.ft. Area in 2 coats for proportion mix 1:1:3 (K2 Bond SBR: Water: Cement).
- As a bonding agent 45 to 50 sq.ft./kg / coat. (Proportion Mix 1:1- K2 BOND SBR: Cement)

Packing:

K2 BOND SBR is available in 200 ml, 500 ml, 1 liter, 5 liter, 10 liter, 20 liter, 50 liter & 200 liter.

Shelf Life and Storage:

K2 BOND SBR has a shelf life of 24 months from the date of manufacturing. Store the material in cool and dry place. Keep away from direct sunlight and heat.

Health & safety:

K2 BOND SBR is not hazardous. It should not be swallowed or allowed to come into contact with the skin and eyes. Protective gloves, Nose mask and goggles should be worn. Contact with the skin for long tenure should be avoided. In case of contact with the eyes, it should be rinsed immediately with plenty of water and medical advice sought immediately.

FIRE

K2 BOND SBR is non-flammable.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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