



# ADVABOND SBR

SBR based bonding agent and admixture

## DESCRIPTION

ADVABOND SBR is a Styrene Butadiene Rubber co-polymer based product which is used in mortar and concrete as an admixture and bonding agent to increase its water resistance and durability.

## USES

- ▶ Admixture: as an admixture for cementitious systems and tile adhesives/grouts. Improves the durability, water proofing and abrasion resistance properties of mortars.
- ▶ Bonding: for bonding of new to old concrete, tile bedding and fixing of slip bricks.
- ▶ Repair of concrete.
- ▶ Waterproofing internally: basements, swimming pools, potable water tanks, sludge tanks, and ducts, tunnels and underpasses.
- ▶ Waterproofing externally: structures above ground.
- ▶ Waterproof bonding: bricks slips, copings, precast treads and risers.
- ▶ Waterproofing suspended floors: patios, walkways, balconies, wet areas, plant rooms.
- ▶ Waterproof/protective slurries: potable water tanks, sewerage and mild chemical holding tanks, porous concrete, block work and long term protection of reinforcements or friable concrete soffits.

## ADVANTAGES

- ▶ Compatible with all types of cements.
- ▶ Can be applied in thin screed without cracking.
- ▶ Can be used in potable water applications.
- ▶ Easy to use.
- ▶ Enhances the flexural and tensile strength of the mortar and render.
- ▶ Excellent adhesion to most building materials.
- ▶ Good resistance to salt permeation.
- ▶ Improves the chemical and abrasion resistant properties of the mortar.
- ▶ Provides good resistance to water and moisture vapour transmission.
- ▶ Prolonged corrosion protection.
- ▶ Reduce shrinkage.
- ▶ Reduce the water/cement ratio.

## APPLICATION INSTRUCTIONS

### Surface preparation

Surface to which ADVABOND SBR mixes are to be applied shall be clean, sound and free of all loose particles. Remove all laitance, oil & grease, mould oil, curing compound from surface. Ensure that the exposed reinforcing steel is clean and free from scale and rust. When repairing damaged concrete, ensure that the concrete has been cut back to thoroughly sound material.

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## Bonding slurry

Saturate absorbent surfaces with water completely till it reaches a saturate surface dry condition. However, ensure that the surface is free of standing water. Prepare a bonding slurry by mixing 2 parts O.P. cement to 1 part of ADVABOND SBR (by volume). Using a stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2mm. If a second coat is necessary, it must be applied at right angles to the first to ensure complete coverage.

(Approximately 20L of ADVA SBR mixed with 50kg of O.P cement will give a creamy slurry which will cover 15-40m<sup>2</sup> depending on the surface texture and thickness applied).

## MIXING RATIO

For normal use with cement sand screed, the standard mixing ratio of 10L of ADVABOND SBR per 50kg of Portland cement is recommended.

## HEALTH & SAFETY

As with all Bitumen products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes immediately with fresh water. Should any of the products be accidentally swallowed, do not induce vomiting call for medical assistance immediately. Ensure that the container is available for medical attendant to examine any relevant instructions and content details.

## STORAGE

Should be stored above the freezing temperature in sealed containers, away from direct flames and sunlight. In tropical climates, store in air condition rooms.

## SHELF LIFE

Up to 12 months if stored as per recommendations. Excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

## TECHNICAL SPECIFICATIONS

PROPERTIES	VALUES	TEST STANDARDS
Color and Appearance	White Milky Liquid	-
pH	8.5-10	-
Density, [g/cc]	1.0±0.05	ASTM 1475
SBR modified mix [w/c: 0.45 and 350 kg cement]		
Compressive strength, [N/mm <sup>2</sup> ]	>40	ASTM C 579
Flexural strength, [N/mm <sup>2</sup> ]	>12	ASTM C 580
Tensile strength, [N/mm <sup>2</sup> ]	>6	ASTM C 307
Shear bond strength, [N/mm <sup>2</sup> ]	>5	ASTM C 882
Application temperature, [°C]	5 to 45	-
Service temperature, [°C]	-5 to 45	-
Standards	ASTM C 1059	

All values given are subject to 5-10% tolerance.

The information given in this datasheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site, conditions, etc.



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