

Smartcare Bond AR

Acrylic Surface Sealer and bonding agent for concrete repair

Description

SmartCare Bond AR is an acrylic sealer and bonding agent for cementitious repair mortars. SmartCare Bond AR can be used as plaster bonding agent, primer and integral bonding agent for concrete. It is resistant to hydrolysis and can therefore be used for external application.

Uses

Bonding Agent

SmartCare Bond AR bonds with almost all kinds of building materials like concrete, masonry, stonework, plaster and block board. SmartCare Bond AR enhances bond strength, screed wear resistance, making the topping dust free, water, oil and grease resistant.

Surface sealer

SmartCare Bond AR can be used as a surface sealer for concrete to minimize dusting and penetration of oils. It can be used as an effective primer on certain decorative coatings

Characteristics/ Advantages

- Bonds to most common construction materials like concrete, masonry, Formulated for hot climates
- stonework, plaster and blackboard Excellent bond to concrete, brick and masonry
- Versatile, Economical and simple to use
- Enhances adhesion
- Increases strength
- Exceptional adhesive
- Quick drying properties

Properties

PROPERTY	VALUES	TEST STANDARDS
Appearance	White viscous	-
Solid	Liquid 30±3	ASTM D
Content, [%]	6-7.5	2939 BS
Ph	1.05±0.05	EN ISO
Specific gravity	5 to 45	787 ASTM

Application temperature [°C]		D 1475
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All values given are subject to 5-10% tolerance

Packing

SmartCare Bond AR	5, 20, 200 ltr packs
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Application Method

Preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any laitance by light scrubbing, light sweep-blasting or other suitable mechanical means.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off-test.

Surface sealer

Porous surfaces should be sealed with a solution of 1 part SmartCare Bond AR to 2 parts clean water

Application

The concrete substrate should be soaked with clean water and any excess water removed before application of SmartCare Bond AR (The surface should be SSD)

Please note: SmartCare Bond AR should not be used as a bonding agent in continuously wet areas. In such conditions SmartCare Bond SBR is recommended.

SmartCare Bond AR may be applied by brush or roller as indicated in the following specific applications:

As a Primer

Apply diluted SmartCare Bond AR to prepared concrete substrate using brush or roller.

As a bonding agent for cement plasters

SmartCare Bond AR Reduces hacking and keying and will provide a mechanical key to receive plaster. The surface shall be sound and free from all contaminants, such as oil, grease, paint etc. Apply the bonding agent evenly, using a brush or

roller surface and the repair mortar or topping should be applied whilst the primer is still tacky. It is important that the bonding agent fill every square inch of the substrate to ensure a solid bond. The same method shall be used to bond new to old concrete. Whilst the primer is still tacky. It is important that the bonding agent fill every square inch of the substrate to ensure a solid bond. The same method shall be used to bond new to old concrete.

High Temperature Working

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing. SmartCare Bond AR must be tack-free prior to coating.

Curing

SmartCare Bond AR mortars, toppings and renders are cement based. In accordance with good construction practices all cementitious materials must be cured immediately after finishing.

The use of curing membranes is recommended. In harsh drying conditions, supplementary curing with

damp hessian or polythene sheeting is strongly recommended.

Cleaning

SmartCare Bond AR should be removed from tools, equipment and mixers with clean water immediately after use. Spillages should be absorbed with clean sand or sawdust and disposed of in accordance with local Health and Safety regulations.

Note: Stir the contents of the product thoroughly, before use

Limitations

Not recommended where permanent dampness occurs. Do not use below 5°C

Note: The information supplied in our literature or given by our employees is based on extensive experience and, together with that supplied by our agents or distributors, is given in good faith to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of work, we accept no liability for any loss or damage which may arise as a result thereof.

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