



Smartcare PVA Bonding Agent

Bonding agent and admixture for cement and mortar

Description

Used as a surface sealer, bonding agent and admixture for cement and mortar. SmartCare PVA Bonding Agent is a Multipurpose adhesive, sealer and cement admixture, SmartCare PVA Bonding Agent can be used as plaster bonding agent, primer and integral bonding agent for concrete and granolithic floor repairs, when mixed with well graded aggregates can be used as tile adhesive, bonding granolithic toppings to sub-concrete, dust proofing and surface sealer of floor screeds and friable concrete flooring.

Uses

Adhesive

SmartCare PVA Bonding Agent bonds with almost all kinds of building materials except PVC, rubber and polyethylene. When added with suitable filler, it can be used for fixing plasterboard, ceramic tiles and natural stones.

Bonding Agent

SmartCare PVA Bonding Agent enhanced bond strength, screed wear resistance, making the topping dust free, water, oil and grease resistant

Admixture

SmartCare PVA Bonding Agent has a plasticizing effect which improves mortar application, increases the mechanical strength of screeds and renders, reduces shrinkage and improves adhesion even on smooth concrete with minimal surface preparation

Surface sealer

SmartCare PVA Bonding Agent can be used as a surface sealer for concrete and floors to minimize the dusting and penetration of oils. It can be used as an effective primer on certain decorative coatings

Characteristics/ Advantages

- Bonds to most common construction material except PVC rubber and similar products
- Versatile, Economical and simple to use
- Enhances adhesion
- Increases strength

- Exceptional adhesive properties
- Quick drying

Packing

5 Ltr, 20 Ltr, 200 Ltr

Yield/ Dosage:

As an admixture

Floor screeds/topping – 5 -10 L of SmartCare PVA Bonding Agent per 50 kg cement.

As a Primer /adhesive / bonding coat

Neat 1L / 10 m²

Dilute 1:1 1L / 20 m²

These values will vary according to the degree of porosity and texture of the surface.

Properties

Type		Modified SBR dispersion
Appearance	White viscous liquid	-
Solid content, [%]	30±3	ASTM D 2939
pH	6-7.5	BS EN ISO 787
Specific gravity	1.05±0.05	ASTM D 1475
Application temperature, [°C]	5 to 45	-

All values given are subject to 5-10% tolerance

Application Method

Surface 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 de-greaser. The effectiveness of decontamination should then be assessed by a pull-off-test.

Surface sealing

Porous surfaces should be sealed with a solution of 1 part SmartCare PVA Bonding Agent to 15 parts clean water. Where surface porosity is extremely high it may be necessary to increase the concentration to 1 part SmartCare PVA Bonding Agent to 10 parts water.

Foam, slag and other lightweight building blocks are exceptionally absorbent and will require pre-soaking prior to sealing.

Application

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

SmartCare PVA Bonding Agent may be applied by brush or roller as indicated in the following specific applications:

As a General adhesive

As an adhesive for uneven surfaces

Make a slurry of SmartCare PVA Bonding Agent diluted with equal amount of water, cement and fine sand. The paste can be applied as an adhesive for fixing laster boards, polystyrene tiles for horizontal and vertical application. If the surface is highly porous, apply a primer coat of SmartCare PVA Bonding Agent mixed with water in the ratio of 1:3.

As a bonding agent for screeds, plasters and renders

SmartCare PVA Bonding Agent Reduces hacking and keying and will provide a mechanical key to receive plaster or render coats. The surface shall be sound free from all contaminants, such as oil, grease, paint etc. Sealing of the surface is done with 1 part of SmartCare PVA Bonding Agent with 3 parts of water or 3 to 1 sand cement can be added to the mix to create a rough texture rough coat to provide a mechanical key for the next coat. Apply the bonding coat followed by the application of the render, screed or plaster. The same method shall be used to bond new to old concrete.

As an admixture

For normal to heavy duty flooring, 5 – 10 litres of

SmartCare PVA Bonding Agent is the recommended to be mixed with 50 kg cement. For heavy renderings and cementitious toppings, prime the surfaces with SmartCare PVA Bonding Agent diluted with 3 parts of water. Prepare the slurry key coat with 1 part of ordinary Portland cement, 1 part clean washed sand and 1 part of SmartCare PVA Bonding Agent to 3 parts of clean water. Apply the prepared screed mix onto the slurry key coat while still tacky.

As a primer for Over-coating bitumen with oil based paints

Coat the bitumen with a solution of 1 part SmartCare PVA Bonding Agent to 1 part water as an anti-bleed priming coat suitable for most oil-based paints.

High temperature working

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing.

Curing

SmartCare PVA Bonding Agent 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 PVA Bonding Agent 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

Do not over towel

Precautions & Limitations

- Recommended dosage to be followed achieve desired results
- When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable
- Surface should be in saturated surface dry conditions
- In case of bond coat application, make sure the repair mortar is overlaid when the surface is tacky. Recoat again if the tackiness is lost.
- Stagnant water should be strictly avoided for application purpose.

Shelf life & Storage Condition

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in un- opened condition and if stored as per recommendations.

Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its

shelf life.

Health & Safety Features

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn (see packaging for specific instructions).

Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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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