

WEATHERPROOF HIGH-PERFORMANCE ACRYLIC POLYMER FOR WATERPROOFING & REPAIR



DESCRIPTION

JSW SmartBlok Universal Polymer is a modified acrylic emulsion-based material. This is ready to use for multi-purpose waterproofing applications at leakage and seepage prone locations of new constructions including bathrooms, toilets, water tanks, small terraces, etc. This material is specially designed for exterior waterproofing. Addition of this material provides improved adhesion to old or new concrete and plaster. It is a universal bonding material for concrete and masonry repair.

FEATURES AND ADVANTAGES

- Crack Prevention – The improved flexural strength prevents crack generation.
- Hardness – It improves the surface's hardness and prevents dust generation.
- Shrinkage – It reduces the drying shrinkages.
- Bonding – It provides improved bonding for concrete, mortar, for new constructions as well as repair works.
- Erosion & Corrosion - It reduces erosion and corrosion.
- Flexible Coating - It provides a flexible coating for exterior and interior applications.

AREA OF APPLICATION

- Waterproofing: Good as an additive for economical water proofing of roof and terraces with protective screed on top
- As bond coat: The bond coat provides better adhesion at the interface of old to new concrete and mortar substrate
- Repair Works: It provides better adhesion and waterproofing in repair works
- Priming: Reinforcement Steel Bar
- Pinhole treatment: The bond coat is applicable for pinhole treatment of concrete surfaces
- External render: The external render provides a frost free waterproofing

METHOD OF APPLICATION

Surface Preparation

- Surface should be cleaned with a wire brush to remove dirt and loose particles. The surface should be free from grease, oil, loose particles laitance and dust
- The damaged portion of the concrete should be removed by saw cutting. If breaking isn't possible, then the surface should be roughened by a wire brush or grit blasting
- After cleaning the surface should be saturated with potable water. Any extra water should be removed before application

Waterproofing Application

- The composition of waterproofing coating is SmartBlok Universal Polymer : Cement = 1:2 (by weight)
- Add cement to SmartBlok Universal Polymer by gently mixing to avoid air entrapment
- Use brush for application. Apply two coats of waterproofing slurry with a 3-4 hr interval (for surface drying) Protective screed should be applied with required thickness and slope

Bond Coat Application:

- The composition of bond coat is SmartBlok Universal Polymer : Cement = 1:1.5 (by weight)
- Add cement to SmartBlok Universal Polymer by gently mixing to avoid air entrapment
- Use a brush for application. Apply one coat on the prepared concrete surface
- Repair mortar should be applied while applied bonding coat surface is still tacky

Reinforcement Steel Primer:

- The composition of reinforcement steel primer is SmartBlok Universal Polymer : Cement = 1:1.5 (by weight)
- Add cement to SmartBlok Universal Polymer by gently mixing to avoid air entrapment
- Use a brush for application
- Apply second coat after the surface of the 1st coat has dried

Repair Mortar:

- The repair mortar to be made with SmartBlok Universal Polymer with the given mix proportion. Cement : 50 kg, Washed Sand : 150 kg, SmartBlok Universal Polymer : 6-7 kg, Water : 21-22 ltr
- Extra water may be added to get required application consistency

TECHNICAL DATASHEET

JSW SMARTBLOK UNIVERSAL POLYMER

JSW Cement

WATER PROOFING

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TECHNICAL DATA

PARAMETERS	RESULTS
Nature/Appearance	Milky White Translucent Liquid
Material Type	Modified Acrylic
pH	7-8
Total Active Content (by mass)	34±1 %
Specific Gravity at 25 °C	1-1.05

DOSAGE

- Waterproofing - SmartBlok Universal Polymer : Cement = 1:2 (by weight)
- Bonding Coat - SmartBlok Universal Polymer : Cement = 1:1.5 (by weight)
- Repair Mortar - Cement : 50 kg, Washed Sand : 150 kg, SmartBlok Universal Polymer : 6-7 kg, Water : 21-22 ltr

PACK SIZE

- 1 kg, 5 kg, 10 kg and 20 kg

COVERAGE

- Min 7-8 Sq.ft/Kg of Slurry for 2 Coats
- Bond Coat- 23-25 Sft/Kg of slurry for 1 coat

SHELF-LIFE AND STORAGE

- Shelf life is 12 months from the date of manufacturing
- Store in cool and dry place in unopened condition. Prevent from direct sunlight

Disclaimer: JSW Construction Chemical Dry Mix products are guaranteed against material and manufacturing defects. The product is sold as per standard terms and conditions of sales, copies which may be obtained on request. JSW's endeavor is to ensure correct and accurate information on product performance and recommended specifications as mentioned in literature, and still may have to abstain from circumstantial deviations which are beyond control due to human intervention, atmospheric conditions or natural calamities which may not be in accordance with any advice, specification, recommendation or information given by it.

MARKETED BY: **JSW Green Cement Pvt. Ltd.**
Babukhan Millenium Centre, 6-3-1099/1100, No. 702, Block-A, Somajiguda, Hyderabad,
Telangana, India, Pincode - 500 082.

Email: info@jswcement.in | Website: www.jswcement.in | Toll free - 18002662661

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