

TECHNICAL DATASHEET

SMARTBLOK CEM 2K ULTRA PLUS

JSW Cement

WATER PROOFING

SUPERIOR PERFORMANCE ACRYLIC CEMENTITIOUS WATERPROOFING COATING



DESCRIPTION

JSW SmartBlok Cem 2K Ultra Plus is a two-part waterproofing product based on acrylic and cementitious materials. It forms an excellent flexible film coating on the concrete and mortar substrate, providing superior waterproofing.

FEATURES AND ADVANTAGES

- Flexible film : It forms a flexible film coating that accommodates cracks and provides better hiding on the surface
- Water resistance : It provides excellent resistance to water uptake
- Adhesion : It exhibits superior adhesion to concrete and masonry surfaces
- Eco-friendly : It is composed of eco-friendly materials with low VOC

AREA OF APPLICATION

- Excellent as waterproof coating for toilets, bathrooms, kitchens, swimming pools, water reservoirs, etc.
- promising waterproof coating for domestic water tanks
- Waterproofing for concrete slabs
- Waterproof coating for terraces

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, oily materials, loose particles, laitance and dust
- The damaged portion of the concrete should be removed by sawcutting. If breaking is not possible then the surface should be roughened with a wire brush or grit blasting
- After cleaning, the surface should be saturated with potable water. The extra water should be removed before application
- If any surface hair crack is present on the application substrate, it should be filled with a crack filling material before application of JSW SmartBlok Cem 2k Ultra Plus

Mixing

- Shake the liquid component well before mixing
- Use heavy-duty slow-speed mechanical mixer for mixing two components
- Take the liquid part (whole quantity) in a bucket/drum. Add the powder part slowly to the liquid part with continuous slow stirring to achieve a slurry consistency without lumps and foam

Method of Application

- The surface should be prepared as per the process mentioned above. A unidirectional application with a stiff nylon brush should be conducted for coating application. Thorough application should be done to cover the entire surface, so that all small undulations and pores are coated/filled with the coating
- After 6-8 hours (complete surface drying), the second coat should be applied in a perpendicular direction to the 1st coat
- After the 2nd coat, the surface should be left untouched for at least 2 days. After that, the surface should be covered with a moist cloth for curing. Curing with water flooding is not recommended
- For new bathrooms, JSW SmartBlok Cem 2K Ultra Plus must be applied on the entire sunken slab portion and upwards over the masonry walls up to a height of 6-7 feet (to cover the entire splash zone of the shower) to ensure complete waterproofing
- To install tiles on the wall and ground slab, tile adhesive may directly be overlaid on the JSW SmartBlok Cem 2K Ultra Plus coating
- All the plumbing works, including inserted pipes and sanitary fittings, should be completed before the application of JSW SmartBlok Cem 2K Ultra Plus
- All the submerged pipes and sanitary fittings should be properly grouted with suitable JSW SmartBlok waterproofing products.
- The pipes should be grouted with JSW Steel Grout free-flowing grout or a polymer-modified mortar of JSW SmartBlok Ultra/JSW SmartBlok Ultra Plus/JSW SmartBlok Universal Polymer for better waterproofing
- To repair the bathroom walls, the used repair mortar must be a polymer-modified mortar of JSW SmartBlok Ultra JSW SmartBlok Ultra Plus/JSW SmartBlok Universal Polymer. JSW SmartBlok Cem 2K Ultra Plus coating will be applied on the mortar after the complete setting of the mortar surface
- The plaster used for the repair work should be mixed with JSW SmartBlok IWC+ 200. JSW SmartBlok Cem 2K Ultra Plus coating will be applied on the mortar after the complete setting of the mortar surface
- The coated areas exposed to foot or traffic should be protected by a screed

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TECHNICAL DATA

PARAMETERS	RESULTS
Nature/Appearance	Two component (1 part liq. polymer + 2 part powder)
Appearance	Liquid part: Milky white / Powder: Gray powder
Wet mix slurry density	1.5-1.6 g/cc
pH of slurry	9-11
Pot life of the mix at 30°C	Minimum 45 min.
Elongation at break of dry film	Minimum 130%

SAFETY PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only. For more details please refer the relevant Material Safety Data Sheet, available on request

DOSAGE

Liquid polymer part: Powder part = 1: 2 (by weight)

COVERAGE

7-8 Sq.ft/Kg of Slurry for 2 Coats

BEST BEFORE

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

PACK SIZE

- 15 kg and 30 kg

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.