

THE
LEADERS' CHOICE

INTRODUCING THE ALL-NEW

KRYSTA LEAKPROOF

Integral Crystalline
Waterproofing



JSW Cement Ltd.

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About Us

JSW Cement is India's leading 'Green Cement' manufacturer and is part of the JSW Group. We have a strong commitment towards innovation in sustainability and technology to offer eco-friendly construction and building solutions to our customers. Growing exponentially since our inception in 2009, we have reached a production capacity of 14 MTPA (Million Tonnes Per Annum).

We envision a self-reliant India by boosting our colossal infrastructure and fast-growing economy through benchmark projects.

We cater to 11 major states in India across eastern, western and southern part of the country.

JSW Cement emerged in the market as a leader in environmentally friendly product Pozzolona Slag Cement (PSC). Since then we have expanded our cement range to Concreel HD (CHD), CompCem (Composite Cement – PCC)

JSW Cement also extends its services through its construction products in categories like Ground Granulated Blast Furnace Slag [GGBS] and Slag Sand for the use in concrete and other civil works. Latest introduction to this is the range of construction chemical products with its Drymix mortar range – Enduro Plast, Duraflor and Krysta Leakproof being launched in South.

JSW is now being recognized as a wholistic group for construction with Steel, Cement, Paints and now Construction Chemicals foray to the Indian market.



Product Description

KRYSTA LEAKPROOF, an Integral Crystalline Waterproofing admix, is a capillary waterproofing compound for concrete and mortar. It is in dry powder form and added to the concrete mix at the time of batching.

It consists of selective cementitious material, ultrafine silica aggregate and various active and proprietary reactive chemicals used as permanently active waterproofing treatment for concrete and mortar. This active additive reacts with moisture and by-products of cement hydration from concrete to form millions of needle like crystals. These crystals grow and deposit throughout the pores and voids in concrete and permanently blocking and reduces water permeability and which forms an impervious barrier to liquids thereby protecting the concrete and steel reinforcement.

Reference Standards

- IS 2645
- ASTM C 1202
- ASTM C 39
- DIN 1048



Uses

KRYSTA LEAKPROOF compound to provide permeant protection for all concrete that will be subjected to water pressure

- Foundation of high rise buildings, shallow basements and elevator pits
- Reservoirs, water treatment tanks, canals, traffic and subway tunnel and dams
- Swimming pool, decks, bathrooms, garages, sewage tanks and water treatment
- Bridges, roof-tops, highway infrastructure
- Below grade concrete pipe lines, marine structure, shotcrete
- Basement retaining walls, foundations
- Parking structures, secondary containment structures

Features & Benefits



Reduces permeability, concrete shrinkage and cracking

Becomes an integral part of the concrete structure



Resists capillary moisture ingress

Remains permanently active



Self-seals hairline shrinkage cracks up to 0.5 mm width



Resists both positive and negative pressure

Resists very high hydrostatic pressure up to 16 bar head



Non-toxic : Safe to contact with potable water

Reduces chloride permeability



Protects steel reinforcement against corrosion

Increases durability of concrete



Improves chemical resistance

Product Specifications

For Concrete : KRYSTA LEAKPROOF compound is a dry powder dosage at 1 % by weight of the cement and added to concrete during mixing.

For Mortar : KRYSTA LEAKPROOF compound is a dry powder dosage at 1 % by weight of the cement and added to mortar during mixing.

Physical Properties

Nature of product	Single component cementitious Grey powder
Appearance	Grey powder
Bulk Density	1.05 + 0.05

Technical Details

Description	Test method	Test parameters	Performance to Control
Pressurized water Penetration	EN 12390-8	1 % Dosage	Passed
Water Penetration	DIN 1048	5 Bar Head pressure	% Reduction
Water Permeability	DIN 1048	16 Bar Head pressure	% Reduction
Water Permeability	IS 2645		% Reduction

*For complete technical parameters please refer to the Technical Data Sheet

**Parameters are tested and verified by reputed third party test labs

- KRSTA LEAKPROOF compound is a dry powder dosage, at 1% by weight of the cement add into wet concrete during mixing

- For small mixes, add KRSTA LEAKPROOF compound to the aggregates and mixing for 2-3 minutes prior to adding cement and water

- For plant mixed material add KRYSTA LEAKPROOF compound to 65 -75% of the pre-batches water and mixing for 2-3 minutes prior to adding the remaining batched ingredients and mixing 4-6 min in accordance with standard practice

- In transit mixer, KRYSTA LEAKPROOF compound is dispersed in water and add to transit mixers on site just prior to placing. The minimum mixing time is 4-6 minutes at agitating speed

Health & Safety

- Wear PPE's while handling the KRYSTA LEAKPROOF and application as per health and safety rules
- Irritation in eyes and prolonged contact with skin in case of contact, flush thoroughly with sufficient quantity of water
- Avoid breathing dust

- **Shelf life 06 months from date of manufacturing in sealed condition**
- **Store in a dry & enclosed place in packed condition**
- **Pack Size : 30 Kg bags /pails**