

THE
LEADERS' CHOICE

INTRODUCING THE ALL-NEW

DURAFLOOR Floor Hardener



JSW Cement Ltd.

Head Office

JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400051 | Maharashtra | India 022-42860000

Bengaluru Office

JSW Cement Ltd, The Estate, 3rd Floor, Dickenson Road, Bengaluru - 560042 | Karnataka | India 080-42448888



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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

DURAFLOOR is a high-quality durable cementitious-based, non-metallic, non-oxidising concrete Floor Hardener, free from any organic impurities. This hard wearing dry shake powder is a well-manufactured, graded composition of select cement, additives, graded aggregates & polymers to ensure ease of placing and finishing.

This is best-suited for residential, commercial and industrial floors to deliver a monolithic, high abrasion-resistant floor. The finished surface with DURAFLOOR provides better impact resistance and also protects the surface from gas, oil and chemical attack owing to its non-skid, anti-slip properties.

Reference Standards

- ASTM C 944
- BS 1881 part 116
- IS 1237



Features & Benefits



Smooth and hard surfaces prevent dust generation

High abrasion & impact resistance



Resists erosion due to heavy vehicular or traffic movement

Low water absorption



Ideal for interior and exterior application

Chemical resistance



Non oxidising, hence no corrosion or erosion

Forms monolithic bond with base concrete



Special Instructions

The base concrete should have a minimum cement content of 300 kg/m³. The concrete mix should be designed to minimise segregation and bleeding. Free water cement ratios of less than 0.55 is appropriate. The slump of the concrete should be between 70 to 100 mm.

Vacuum dewatering is not recommended when w/c ratios of less than 0.55 has been used. The base concrete should be laid and compacted in accordance with good concreting practices. Accurate finished profile and minimum laitance build up should be ensured.

Coverage

Application rate intended traffic use.

General vehicular traffic - 3 kg/m²

Medium vehicular traffic - 5 kg/m²

Heavy vehicular traffic - 7 kg/m²

Technical Details

Description	Test method	Values
Appearance		Free flowing powder
Colour		Grey
Water Absorption %	IS 1237-2012, ASTM C 642	9.4
Hardness Mohs	IS 13630 (pt-13), ASTM C944	7
Resistance to wear (mm)	IS 1237-2012	2.61

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

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

Application Method

Appropriate timing for DURAFLOOR application over green concrete is critical. Application must start when the base green concrete has to the point when light foot traffic leaves an imprint of about 3 mm. Subsequently, any bleed water must be evaporated. Application must be done in 2-3 slots spreading or broadcasting the DURAFLOOR onto the concrete. The concrete will turn uniformly grey as DURAFLOOR absorbs moisture from concrete, then apply trowel or wooden floater. The first and second broadcasting will lead to some bleed water, you can then spread the material to ensure complete elimination of bleed water during the final broadcasting. Power floater can be applied for larger areas.

It is important to ensure that the surface is not being over-worked.

Please Note :-

- Sprinkle additional quantity of DURAFLOOR around the edges & end sections of the application area
- When color uniformity is of importance use only stainless steel trowels for hard trowelling

Curing

Adequate curing is extremely important. Curing should commence as soon as the final set has occurred, just before the surface starts to dry. Conventional moisture curing procedures such as water spray, ponding, wet burlap or plastic covers can be used, if precise color uniformity is not essential. Moisture curing should be carried out for a minimum of 48 hours. Most efficient method of curing is by using a curing compounds which conform ASTM C 1519 or DOT specifications.

Application Precautions

Timing of application is critical. Pre-mature application results in excess water being absorbed by DURAFLOOR, which leads to lowered strength and dusting on the floor surface. Another problem could be dense aggregate formation, leading to sinking. Delayed application will result in insufficient moisture to ensure hydration, resulting in improper application, pitting & crazing of the surface.

Health & Safety

Contains cement, polymer and other additives which may cause skin irritation. In case of skin or eye contact, wash thoroughly with water. Please consult the MSDS for detailed safety and handling instructions. In case of eye contact consult with nearest physician. KEEP OUT OF REACH OF CHILDREN.

- Shelf life 06 months from date of manufacturing in un-opened condition
- Should be in a dry and covered area
- Pack Size : 40 kg bags