

JSW DURAFLOR

Floor Hardener

DESCRIPTION

DURAFLOR 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 Floor Hardener provides better impact resistance and also protects the surface from gas, oil and chemical attack owing to its non-skid, anti-slip properties.

FEATURES AND ADVANTAGES

- Smooth and hard surfaces prevent dust generation
- High abrasion & impact resistance
- Resists erosion due to heavy vehicular or traffic movement
- Low water absorption
- Chemical & Alkali resistance
- Non oxidising, hence no corrosion or erosion
- Forms monolithic bond with base concrete
- Ideal for interior and exterior application

SPECIAL INSTRUCTIONS

- The base concrete should have a minimum cement content of 300kg/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 100mm.
- 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.

METHOD OF APPLICATION

Appropriate timing for **DURAFLOR** 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 3mm. Subsequently, any bleed water must be evaporated. Application must be done in 2-3 slots spreading or broadcasting the **DURAFLOR** onto the concrete. The concrete will turn uniformly grey as **DURAFLOR** 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 DURAFLOR around the 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. Moistuer 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.

STANDARD COMPLIANCE

ASTM C 944, BS 1881 part 116, IS : 1237

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TECHNICAL DATA

PARAMETERS	RESULTS
Appearance	Free flowing powder
Colour	Grey
Water Absorption%	9.4
Hardness Mohs	7
Resistance to wear (mm)	2.61
Chemical Resistance	-
5% Acid Solution	No change in material integrity
5% Alkali Solution	No change in material integrity

COVERAGE

- Application rate intended traffic use.
- General vehicular traffic - 3kg/m²; Medium vehicular traffic - 5kg/m²; Heavy vehicular traffic - 7kg/m²

PACK SIZE

- 25 kg Bag

BEST BEFORE

- 06 months from date of manufacturing in un-opened condition.
- Should be in a dry and covered area.

PRECAUTIONS

Timing of application is critical. Pre-mature application results in excess water being absorbed by DURAFLO, 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.

SAFETY & HEALTH

Contains cement, a 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.

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.