

TECHNICAL DATASHEET

SMARTBLOK FG EPOXY COATING

JSW Cement
WATERPROOFING RANGE

Epoxy resin coating for potable water retaining structures



DESCRIPTION

SMARTBLOK FG EPOXY COATING is a two pack, solvent free, epoxy resin material. It is supplied in pre-measured quantities ready for site mixing and use. The material cures to provide a smooth hygienic and tough finish which is suitable for contact with potable water and food stuffs.



ADVANTAGES

- **Food grade & Hygienic:** Can be used for potable water coatings
- **Abrasion resistant:** Exceptional resistance to abrasion and to a wide range of chemicals
- **Aesthetic:** Forms a smooth glossy, jointless and easy to clean surface on curing
- **Corrosion resistant:** Does not contain any metallic particles
- **Chemical Resistant:** Proven against a wide range of industrial chemical Compatible with all substrates Can be applied directly on to mild steel and concrete. Solvent free and Non Toxic No Odour during application and can be used in confined areas.

USES

SMARTBLOK FG EPOXY COATING is a solvent free epoxy coating which is used for lining and waterproofing potable water retaining structures and surfaces subject to contact with water and food stuffs. The cured film is resistant to corrosion, chemical attack and abrasion and is suitable for application to reservoirs, tanks silos, water treatment works, breweries, dairies and meat and food processing plants. The cured film is non-toxic and meets the requirements of IS 9833-1981

COVERAGE AND PACKSIZE

- SmartBlok FG Epoxy Coating is recommended to be applied in 2 coats which shall give 200 microns WFT minimum.
- SmartBlok FG Epoxy Coating covers approx 3-5 sqm per litre per coat.
- The coverage figure is theoretical - due to wastage factors and nature of substrates, practical coverage figures may vary at site.
- Pack size is usually 10 kgs pack (8.5 kgs Part A and 1.5 kgs Part B) The pack size can be changed according to quantity and requirement.

METHOD APPLICATION

Concrete Surfaces

All surfaces must be smooth, sound and free from debris loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. Remove all foreign matter and open up blow-holes, and provide a suitable key for SmartBlok FG Epoxy Coating All blow holes and imperfections should be filled with JSW SmartBlok Universal Polymer Site engineered Mortar.

Steel Surfaces

All surfaces should be properly cleaned and dirt free before application.

Mixing

Both the base and hardener should be stirred separately and then hardener to be poured in base container and then mix homogenously. It is recommended that mechanical mixing be employed. Using a mixer or a heavy duty, slow speed electric drill fitted with a paddle

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APPLICATION

Number of coats	2
Theoretical wet film Thickness/Coat	100 microns
Minimum application temperature	10°C
Fully cured	7 days @ 30°C
Over coating time	24 hours @ 20°C

Any surfaces should be treated with minimum two coats of SmartBlok FG Epoxy Coating. The thoroughly mixed material should be applied with a suitable stiff nylon type brush. The first coat must be firmly applied and be well scrubbed into the surface, ensuring a uniform coating with a wet film, thickness not less than 100 microns. The first coat should be allowed to become tack free before applying the second coat. The second coat should be applied at right angles, again achieving a wet film thickness not less than 100 microns.

PHYSICAL PROPERTIES

Volume Solids	100%
Consistency	Brush
Adhesion	> 2.5 N/mm ²
Pot life @ 30°C	45 mins
Final curing	7 days
Elongation at Break	30%
Tensile Strength	20 N/mm ²
Mixing Ratio	85:15

CLEANING

SmartBlok FG Epoxy Coating should be removed from tools and equipment with Ind.solvent immediately after use. Cured material can only be removed mechanically.

SHELF LIFE

12 months if kept dry in store between 5°C and 30°C in the original unopened containers.

SAFETY PRECAUTIONS

SmartBlok FG Epoxy Coating is non flammable. However, necessary safety precautions like hand gloves should be used while handling the materials. However any splashes on the human body should be washed with plenty of water. Smoking and naked flames should be avoided while using this material.

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