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Construction Chemicals
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FLEX WHITE SAND

Polymer-modified, Flexible Cementitious Waterproof Coating

Description

FLEX WHITE SAND is a two-component, polymer-modified, cementitious flexible coating.
Component (A) is a concentrated white emulsified polymer solution and component (B) is a selected blend of cementitious ingredients and dry-admixtures.
FLEX WHITE SAND is a waterproofing membrane that acts as an effective barrier to water and moisture with appropriate flexibility to bridge surface dynamic hair cracks.

Uses and Key Functions

- Waterproof membrane for water retaining structures as water tanks, culverts and canals.
- Sealing of swimming pools, abattoirs, bathrooms.
- Waterproof coating for roofs.
- Protective coating for concrete foundations.
- Suitable for used as a textured protective cementitious finish for boundary walls, blocks, and concrete.
- Waterproofing under tiles in submerged and wet areas.
- To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water.

Features and Advantages

- Excellent bond strength even after prolonged contact with water.
- Non-toxic, solvent-free, ideal for potable water tanks.
- Flexible, has ability to accommodate and tolerate substrate cracks.
- Excellent barrier to carbon dioxide, chloride ions, sulphates, and water.
- Allows water vapor to escape from the structures and substrates.
- Durable in all climatic conditions.
- Good resistance to weathering, including UV attack.
- Effectively covers honeycombed and pitted poured concrete.
- Good abrasion resistance.
- Cost-effective.

Product Performance Properties

Type	Polymer-modified cementitious waterproofing coating
Color	Grey / White
Wet Density	1.7 kg/l approx
Mix Ratio	Factory proportioned
Pot Life	60 minutes
Bond Strength (ASTM D7234)	≥ 0.85 MPa
Chloride content	Nil
Application Temperature	Minimum, +5 C

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Directions for Use

Substrate Preparation

All surfaces must be clean, sound and free from any loosely adhering particles. Cement laitance must be removed. Wire brush, sand- or water-blast or grinding may be used to clean the substrate. Where moss, algae, or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process. depending on ambient climate. Concrete substrates must be at least 3 - 4 weeks old
Pre-wet the substrate and allow surface water to dissipate before application.

Mixing

Pour the concentrated liquid in a clean suitable mixing container.
Add cementitious powder material slowly to the liquid during mixing using slow speed electric mixer.
Mix for 2 – 4 minutes to obtain a homogeneous, smooth, and free of lumps mixture.

Application

Mixed FLEX WHITE SAND is applied to the prepared surface with a suitable high-quality brushes or rollers.
Two coats are recommended for obtaining the maximum performance.
And the recommended thickness is 1 mm per coat.
Apply the first coat in one direction, and leave it till become dry and firm before applying the second coat perpendicular to the first one.
It is recommended to cure for 14 days for applications where coating will be subjected to immersion.

Cleaning

FLEX WHITE SAND should be removed from tools and equipment immediately after use and before initial cure with clean water. Hardened material can only be removed mechanically.

Packaging

15 kg Pack, 30 kg Pack.

Yield and Coverage

Coverage of 15 kg pail of FLEX WHITE SAND when applied in two coats at a thickness of 1 mm:

- Spray applied: 11.5 m2 approx
- Brush applied: 10 m2 approx
- Trowel applied: 9 m2 approx
- These above quantities are approximate and are given for estimating purposes only

Shelf Life and Storage

The original sealed container of FLEX WHITE SAND has a shelf life of 12 months when stored in a dry, shaded place and good warehouse conditions, below 35 C.

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Health and Safety

It is highly recommended to use suitable protective gloves and goggles during handling and application.
Avoid unnecessary direct contact of skin or eyes to the material.
Accidental contact of FLEX WHITE SAND to the skin should be washed off immediately with soap and clean water.
Eye Irritation or contact should be washed off immediately with copious amount of clean cold water.
For prolonged irritation, seek medical advice.
FLEX WHITE SAND is a non-flammable and not classified as a hazardous material under current legislations.
Do not dispose the material into water or soil. For the sound and valid disposal, consult and follow the related local regulations.

White Sand Product Quality

Ensuring the achievement of customers' requirements and conformance to national and international standards, all WHITE SAND products are developed and manufactured under the base of a highly quality-oriented Product Development processes, and an independently standardized Quality Management System

Technical Support

WHITE SAND provides assistance and technical support to its customers, consultations and technical guidance for many different applications in construction chemicals.
Waterproofing systems and protective coatings.
Tile adhesives and tile grouts selection.
Concrete repair and restoration systems.

Additional White Sand Products

WHITE SAND manufactures a wide range of high-quality construction chemicals and specialty products Including the following product groups:

- Surface Treatments and Primers.
- Cement Modifiers for Mortars.
- Adhesives and Tiling Systems.
- Concrete Repair Compounds.
- Waterproofing Materials.
- Protective Coatings and Linings.
- Industrial Flooring Systems.
- Plasters and Finishing Materials.

Disclaimer

The information given here is based on the best of our knowledge, good faith, experience and laboratory based results and therefore the results will vary depending on the real time application. Also, the values indicated in this Data Sheet here are subject to ± 10% variance due to multiple factors. The performance of our Product depends on the workmanship/quality of application job at the site. Hence White Sand Company for Industry is not responsible for any sort of claims/disputes arising out of any negative results by using our ranges of products. White Sand Company for Industry is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with White Sand Company for Industry that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, White Sand Company for Industry does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.