



Multi-functional, Reactive, Deep Penetrating and Densifying, Hydrophobic Sealer based on Lithium Silicate for Cementitious Materials, Concrete Floor Polishing and Waterproofing of Mineral Surfaces.

General

SS – FloorSeal WB is a very low viscosity, deep penetrating, Lithium Silicate based, reactive densifying sealer that can be applied to a variety of substrates to achieve a dense, hardened, waterproof surface. Based on reactive, hydrophobic finer silica based materials, the sealer is capable of penetrating deep into porous stones or concrete. The reactive components, chemically combine with free lime in the substrate to create a denser, harder material, that offers both hydrophobicity and abrasion resistance. Due to this, cement bound substrates, like concrete can be polished to a very high gloss. This mechanism of hardening and polishing imparts concrete with excellent resistance to abrasion, mild chemicals, water and UV.

The same reaction also helps in pre-treatment of porous calcareous stones [prior to laying] to prevent water uptake and efflorescence stains on the stone.

SS - FloorSeal WB helps to maintain the breathability of the concrete or stone treated and generally retains the natural look of the treated surface. The treatment of cement-bound substrates or stones, does not leave excessive residue after treatment. The product is ready to use, water based and colourless, making application easy. The product can also be used as an additive to cementitious mortars to improve set time and hydrophobicity and density of mortars. It is also suitable for application on dry-mix concrete products such as pavers, pipes, tiles, etc. to improve hydrophobicity and prevent efflorescence.

Product Features

- Multi-functional product for surface application and as additive
- Water based, low VOC, environmentally friendly
- Low viscosity, deep penetrating impregnation formula
- Hydrophobic, densifying and hardening sealer and additive
- Lithium Silicate stabilises more silicate ions
- Free from Calcium / Potassium Silicate
- Polishing aid for natural stones and concrete floors
- Pollution, soot and weathering resistant
- Prevents biological growth on treated substrates
- Dual Action of crystallisation and water repellency



Areas of Application

- Densifier, hardener & polishing aid for concrete floors
- Densifier, hardener and consolidant for natural stones, clay bricks, and terracotta
- Additive for cementitious mortars to improve density, set time and hydrophobicity
- On natural stone or dry-mix concrete products (pavers, pipes, poles, etc.) to prevent efflorescence
- Waterproofing of concrete slabs and walls in shell structure construction
- Treatment of plasters, stone, concrete wall facades, screeds against water
- Pretreatment of natural stones, bricks prior to laying

Areas of Application

Specification Keywords	Multi-functional, Lithium Silicate Base, Penetrating, Reactive, Densifying, Hardener, Hydrophobic, Sealer, Waterproofing, Concrete Polishing, Stone treatment, Concrete Additive
Delivered As	Transparent or slightly cloudy liquid
Storage Instructions	In Original Packing. In a cool dry place.
Shelf Life	12 Months from date of Manufacture.
Post Use	Use Complete Packs, Dispose packaging according to local regulations.
Packing Size	30 kg, 230 kg



Hazards and Safety



Technical Data

Sp. Gravity	1.15 ± 0.05
Application Rate	40 to 50 sq. ft / L; 1.0 - 2.0% by weight of cement as additive
pH	11.5 ± 0.25
Touch Dry	1 to 2 hours, depending on drying temperature
Walkability	Surface Usable after 24, preferably after 48 hours

Instructions for Use

Always test in a small inconspicuous area with a 24-hour cure time to determine consumption, ease of application and desired results. Surface temperature should be 20 - 30 °C. The substrate must be clean, completely dry and free from all loose particles, dust, oil and other materials having a debonding or pore blocking effect [e.g. old sealers, waxes, etc.]. The substrate should be sound and of adequate quality for maximum protection. Mix the product thoroughly prior to application. **SS - FloorSeal WB** should be applied by brush, roller or by low pressure airless spray. No need to scrub in.

Mask off any surfaces not intended to be treated and protect surrounding vegetation. Liberally apply an even coat with a paintbrush, paint roller or low-pressure sprayer. Do not dilute before using. Allow sealer to penetrate the surface for 5 – 30 minutes. During this time, distribute excess sealer over entire area to ensure even penetration. Thoroughly wipe the entire surface with a clean dry cloth to completely remove all excess sealer from the surface, as it may leave a whitish residue. A second coat may be needed for porous, absorbent surfaces and should be applied 30 minutes after initial application when surface is dry. If sealer was not completely wiped off and a residue appears, wipe entire surface with a towel dampened with sealer. Allow minimum 24 hours before surface can be used.

For use as a consolidant, saturate the clean stone or brick surface completely with **SS - FloorSeal WB**. Allow to dry. Reapply as needed till the substrate consolidates completely, saturating the surface each time. As a surface sealant / efflorescence reducer for dry-mix concrete products, simply spray or roller apply **SS - FloorSeal WB** onto the fresh cast surface. Do not allow the material to pool in a spot and remove any excess, with a clean, dry cloth.

For use as a hydrophobic additive, add to the concrete / mortar after all other ingredients have been added and mix for 1-2 minutes to ensure complete dispersion through the mix. For use as a pre-treatment for natural stone tiles, immerse the tile into undiluted **SS - FloorSeal WB** or roller apply to the application surface, until the substrate is saturated. In all cases, preliminary trials of the materials is mandatory to confirm suitability of application.

Safety and Precautions

- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.