

CHEMILINK™ SS-251

Flexible Cementitious Waterproofing Membrane

Description

Chemilink™ SS-251 is a pre-packed two-component flexible cementitious waterproofing membrane consisting of a premixed powder of selected cement, well-graded fillers and additives as Part A and a special polymer dispersion as Part B. The two-parts will become a smooth slurry after mixing on site, be easily applied by brush, roller or spraying, and yield a flexible waterproofing membrane with excellent weather resistance and adhesion to different substrates.

Typical Uses

- Waterproofing of underground structures, like tunnels, basements and lifts pits
- Waterproofing of water retaining structures, like potable water tanks, reservoirs, swimming pools and water features
- Waterproofing of wet areas, like bathrooms, toilets and kitchens
- Waterproofing of external areas, like walls, balconies, flat concrete roofs
- Waterproofing of bridge decks and parking decks
- Protection of reinforced concrete structures against carbonation and chloride attack in marine environment

Advantages

- Performance designed – easy to mix and apply, longer pot-life
- Pre-packed – eliminate risk of incorrect mixing ratio
- Flexible – Bridges cracks up to 2mm
- Non-toxic – suitable for waterproofing of portable water facilities
- Excellent adhesion – bond to porous and non-porous surfaces
- Breathable – allows the substrate to breathe without causing the membrane to bubble or blister
- Light foot trafficable
- Can be applied to damp substrate or young concretes
- High resistance to carbon dioxide and chloride ion diffusion
- Weathering, algae and fungus resistant
- Waterproof – able to resist positive and negative hydrostatic pressure

Technical Data

- Hardness (Shore A) (ASTM D2240:95): > 50
- Tensile Strength (ASTM D412:98a): 1.9MPa
- Elongation at Break (ASTM D412:98a): > 200%
- Adhesion to Substrate (ASTM D4541:93): 1.5MPa
- Crack Bridging (ASTM C836:95): 2.0mm
- Water Penetration Test (DIN1048:91): No Water Penetration
- Chloride Content: 0.003%
- Pot Life (30°C, 50% RH): > 4 hour
- Drying time (Touch dry, 30°C): Approximately 2 hours, depending on temperature and humidity
- Foot trafficable: 4 hours
- Ponding Test: 24 hours after application

Surface Preparation

The substrates must be clean and sound, free of dust, loose particles, oil, grease, or any other contaminant. Cement laitance, loose particles, mould release agent, or curing compound must be removed by high pressure water jetting, scabber or effective methods.

Fill all voids, cracks, edges, angles and other irregularities with Chemilink™ SS-231 or other repair materials to achieve sound and smooth surface.

Mixing

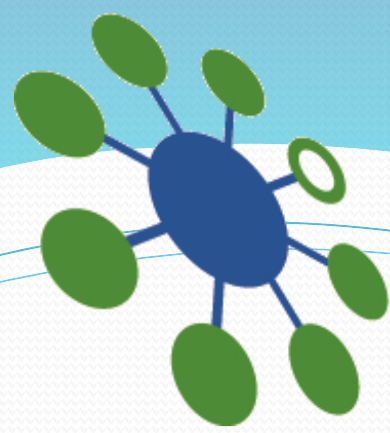
Pour the Chemilink™ SS-251 liquid (Part B) into a clean mixing container. Add Chemilink™ SS-251 powder (Part A) slowly into the container and mix thoroughly with a low speed drill until homogenous and lump free. DO NOT ADD WATER.

Application

Dampen (not wet) the prepared substrate with water before applying the first coat of Chemilink™ SS-251.

Apply the mixed material onto the prepared surface using a block brush, squeegee, roller or spray hopper gun making sure that it is even coated.

Allow the first coat to dry for about 2 hours before application of the second coat.



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Apply the second coat at right angles to the first coat to ensure proper coverage.

Depending on site conditions and thickness required, at least 2 coats should be applied. One application should not exceed 2mm thick otherwise cracking may occur.

Allow the waterproofing membrane to completely dry before laying the screed or commencing ponding test.

Packaging and Coverage

Chemilink™ SS-251 is supplied in the following packs:

Pack Size	Part A (Powder)	Part B (Liquid)
43kg	18	25
12kg	5	7

Coverage: 0.8 kg/m²/coat

Dry film thickness: 0.8 – 1.2 mm

(depending on site conditions, 2 – 3 coats is required)

Colours

Dark grey

Other colours can be supplied upon request.

Cleaning

Tools and equipment should be cleaned with water before the coating hardens.

Storage

Chemilink™ SS-251 can be kept for 12 months from the date of manufacture if stored in original unopened packing in a cool dry place.

Health and Safety

Product is classified as non-hazardous.

Product is alkaline. Protect hands with rubber gloves.

Avoid contact with skin and eyes. Any splashes to skin and eyes, flush with water.

For detailed information, please follow instruction on the product Material Safety Data Sheet.

