

CONSEAL 270

Two Component Polyurethane Waterproofing Membrane

Description

Conseal 270 is two components, solvent free, liquid applied Polyurethane based waterproofing coating which when mixed together, forms a high performance seamless elastomeric waterproofing. It increases the wear and abrasion resistance of treated surfaces.

Features

- Solvent free, cold applied
- When applied, forms a seamless leak proof membrane
- Excellent Crack bridging Properties
- Excellent adhesion to almost any surface
- Waterproofed surface provides excellent weather resistance and UV resistance
- Outstanding mechanical properties
- Does not need the use of open flames (torch) during application.
- High tensile strength and elongation
- High abrasion resistance and excellent chemical resistance
- Ideal for applications in both new and old substrates

Uses

- Waterproofing and protection of concrete construction like bridge decks, tunnels, stadium stands etc.
- Conseal 270 is used as seamless waterproofing system for bathrooms, swimming pools, kitchens, terraces, balconies, shower areas.
- Cold applied waterproofing for flat roofs and concrete structures, basement masonry, roof gardens, car parking
- Waterproofing of concrete, tiles and metal surfaces such as roof, terraces and balconies, planter boxes, retaining walls etc.

Application

Conseal 270 can be applied by brush, roller or airless spray. Application thickness should not be less than 1.2mm. It should be ensured that the material is not applied at excessive film thickness in single layer. Excessive film thickness may create bubbles. Application should be done in two layers. Tiling or finished floor installations should be carried out as soon as possible after full cure of membrane is established.

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Surface Preparation

Adequate and detailed surface preparation is essential for durability of product after installation. Before application, surface must be clean, dry and without contamination. The compressive strength of substrate must be at least 25MPa and cohesive bond strength must not be less than 1.5MPa.

All loose concrete, chippings and dust should be removed, and uneven surface smoothed with the aid of grinding. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Oil, grease, varnishes, rust, dust and mould on metal surfaces shall be removed by wire or stiff brushing and grit blasting.

Voids and honeycombs shall be patched with Costar Repair Mortar allowing the area to cure before applying the membrane.

All right angle bends must have a coving detail installed. In areas where parapet walls, columns, pipe penetrations are present, a 45° coving fillet shall be made at all corners using Geotextile Fiber, a Fiber reinforced shrinkage controlled mortar for concrete repair to the water saturated cured surface.

Priming

Highly porous concrete or concrete containing micro- silica will be sealed using Primer PU, a Polyurethane primer applied at a rate of 5-6 m²/L. The primer should be left to achieve a tack-free condition for 6-8 hours before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

Mixing should be carried out using a heavy duty, slow speed drill fitted with mixing paddle. The contents of base (part A) should be thoroughly stirred to disperse any possible settlement. The entire contents of the hardener can should be stirred and added to the base container. Mix thoroughly for 2-3 minutes taking extra care to avoid air entrapment until a smooth homogeneous mixture is attained. Improper mixing may result in product failure. Once mixed, the material must be used within its pot life.

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Technical Details

Properties	Results
Color	Concrete Grey
Appearance	≤2 mm/m
Pot Life at 25°C	From +15 °C to +25 °C
Drying Time	12.5 N/mm ²
Complete Curing	5Liters of water for 20 kg powder
Elongation at Break (ASTM D412)	≤2 mm/m
Bond Strength (ASTM D412)	From +15 °C to +25 °C
Tensile Strength (ASTM D412)	12.5 N/mm ²
Crack Bridging (ASTM C 1305)	5Liters of water for 20 kg powder

Packaging

Component A: 3Kg
Component B: 17 Kg

Storage

Shelf life in unopened, original container is 12 months, when stored at temperature between 50C and 250C. Store under cover, out of direct sunlight and protect

Health and Safety

Protective mask should be worn during the preparation of the product. In case of contact with skin and eyes, wash with plenty of water.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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