

CONSEAL 250

Liquid Jointless Polyurethane Waterproofing System

Description

CONSEAL 250 is a revolutionary single component permanently elastic Polyurethane waterproofing membrane which after polymerization forms an elastomeric polyurethane membrane, resisting UV rays and capable of handling building movements.

Once cured CONSEAL 250 allows for expansion and contraction over a broad temperature range and maintains waterproofing properties under continuous exposure to water. It may be applied easily on different surfaces (concrete, mortar, brick, ceramics, bituminous membranes, steel, zinc, Aluminum).

Features

- Excellent resistance to water and microorganism
- Resistance to temperature variation.
- Waterproofed surface provides excellent weather resistance and UV resistance
- Provides sun reflectivity, contributing to thermo-insulation.
- It offers a seamless waterproofing system, allowing for easy localization of damage and repair.
- Does not need the use of open flames (torch) during application.
- High strength and puncture resistance and can adhere to almost any type of surface
- When applied it is joint less and no complicated detailing, therefore application is simple
- Provides water vapor permeability, so the surface can breathe.
- Resistant to detergent, oil and other domestic chemicals

Areas of Use

- Waterproofing of concrete, tiles and metal surfaces such as roof, terraces and balconies, planter boxes, retaining walls etc.
- Waterproofing and protection of concrete construction like bridge decks, tunnels, stadium stands etc.
- Waterproofing of green roofs, flowerbeds, planter boxes, kitchen, auxiliary rooms etc.

Application

- **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.
- **Priming**
Prime absorbed surface like concrete, cement screed or wood with Costar Primer. Allow the primer to cure according to its technical instruction.
- **Application**
Stir well before using. Pour Conseal 250 unto the primed surface and lay it out by roller or brush until all surfaces is covered. Apply another layer or the conseal 250 not later than 48 hours. Reinforce always with geotextile fibre at problem areas.

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Technical Properties

Property	Test Method	Result
Hardness (Shore A Scale)	ASTM D 2240	60 shore A Scale
Elongation at Break	ASTM D 412 / DIN 52455	= % 800
Tensile Strength	ASTM D 412 / DIN 52455	= 8 N/mm ²
Water Vapor Permeability	ASTM E 96	>25gr/m ² /day
Adhesion to Concrete	ASTM D 903	= 2N/mm ²
Service Temperature		-40 °C to +80 °C
Rain Stability Time		4 hours
Final Curing Time		7 days

Coverage

1.4-2.5Kg/m² applied in two to three layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

Storage Conditions/Shelf Life

All products should be stored in original packaging at temperatures between 5°C and 25°C. Protect products from all sources of heat, moisture, frost and direct sunlight. When opened product should be consumed immediately unless bucket can be sealed back without allowance for air. Shelf life for all products is 9 months maximum. CONSEAL 250 is packed in 25kg pail.

Health/Safety

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

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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