

CONSEAL 270

Two Component Polyurethane Waterproofing Membrane



PRODUCT 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.

ADVANTAGES

- Solvent free and 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

AREA OF USE

- 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 park.
- Waterproofing of concrete, tiles and metal surfaces such as roof, terraces and balconies.

INSTRUCTION FOR USE

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.

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Mixing

Mixing should be carried out using a heavy duty, slow speed drill filled 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.

Application

Spread and apply at the required coverage rate using a roller to achieve a uniform

finish. A broadcast of dried sand may be used to provide anti-slip feature (colored sand may be used for aesthetic effect). Allow to dry. Substrate is walkable after approximately 12 hours of curing at 20°C

Consumption: 1.4 – 2.5kg/m² applied in two to three layers

Note: This coverage is based on application by roller unto a smooth surface with optimal conditions. Coverage rates above are a guide only and are in practice dependent on substrate profile and porosity.

STANDARD COMPLIANCE

Conforms to the requirement of BS EN 12390 Part 8, ASTM E 1980 : 11

TECHNICAL PROPERTIES

Packaging	Two component (A---17kg, B---3kg) = 20kg
Shelf life	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging.
Appearance	Greyish liquid and powder
Storage condition	Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost
Solid content by weight	~95 % for component B
Density	~1.0 kg/l component (A+B)
Tensile strength	10N/mm ² (ASTM D 412)
Elongation	>500%
Bond strength	>2N/mm ² ASTM D 412
Permeability to Water Vapour	Nil penetration ASTM E 96
Ambient Air Temperature	+8 °C min. / +40 °C max.



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Service temperature	-10 °C min. / +80 °C max. (with reinforcement) -5 °C min. / +80 °C max. (without reinforcement)
Substrate Moisture Content	>5 % moisture content. No water / moisture / condensation on the substrate.

APPLICATION INFORMATION

Cure Time at 25°C	Full cure after 2 to 6hrs depending on the temperature
Re-coat time	6 to 8hrs
Ambient Air Temperature	+8 °C min. / +40 °C max.
Substrate Moisture Content	>5 % moisture content. No water / moisture / condensation on the substrate.

STORAGE AND SHELF LIFE

Store under warehouse conditions below 35°C in the original, unopened packs. If stored at high temperature and/or high humidity conditions, the shelf life will be reduced.

Conseal 270 have a shelf life of 12 months when stored in a dry place below 35°C in their original, unopened packs.

HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.

- Please consult current MSDS for product. For Professional Use only.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-Proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office

LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

