

# CONSEAL 250

Liquid Jointless Polyurethane Waterproofing System



## PRODUCT DESCRIPTION

Costar Con Seal 250 is a reliable one component, low viscosity, cold applied & curing, long-lasting solution for waterproofing of roofs, terraces, balconies, and other structures. It is formulated from carefully selected pure elastomeric hydrophobic polyurethane resins which curing with the humidity in the air to form a durable and elastic layer with excellent mechanical, chemical, thermal properties capable of resisting negative UV and natural element effects. Its application can easily be customized to meet specific project requirements and can be applied by both brush and spray due to its low viscosity.

Costar Con Seal 250 provide a seamless and durable waterproofing layer that can protect buildings from water damage and extend their lifespan as it offer 25 years' service life and when applied in combination with Costar Con Seal 270 Polyurethane waterproofing membrane can offer up to 35 years' service life.

## FEATURES

- Excellent resistance to water, frost, and microorganism
- Resistance to temperature variation and root penetration.
- 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 jointless and no complicated detailing, therefore application simple.
- Provides water vapor permeability, so the surface can breathe.
- Resistant to chemical detergent, oil and other domestic chemicals.

## APPLICATION AREA

- Waterproofing of concrete, 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 and other wet areas (under-tile).

## METHOD OF 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 concrete substrate must be at least 25Mpa and cohesive bond strength must not be less than 1.5MPa.

All loose concrete, chirpings and dust should be removed, and uneven surface smoothed with the aid of grinding.

### Priming

Prime surface like concrete, metal, cement screed or wood with Costar Primer 20. Allow the primer to cure according to its technical instruction

### Product Application

Stir Con Seal 250 well before using and Substrate maximum moisture content should not exceed 2%. Pour Con Seal 250 unto the primed surface and lay it out by roller or brush until all surfaces is covered. For better results, apply with a squeegee and back-rolling with a short haired or spiked roller is advisable. Allow to dry for 4 hours at 20°C. Apply another layer or the con seal 250 not later than 24 hours. Reinforce always with geotextile Fibre at problem areas.

**Consumption:** 1.25 – 1.47kg/m<sup>2</sup> applied in 2 - 3 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.

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## TECHNICAL PROPERTIES

Packaging	25kg sealed bucket
Shelf life	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging.
Appearance	Greyish Liquid
Solid content by weight	~90 %
Density	~1.35 kg/L
Resistance to Water Pressure	No Leaks (DIN EN 1928)
Resistance to Mechanical Damage by Static impression	High Resistance (Class:P3) (EOTA TR-007)
Resistance to Mechanical Damage by dynamic impression	High Resistance (Class:P3) (EOTA TR-006)
Adhesion to concrete	>2.0 N/mm <sup>2</sup> ASTM D 903
Resistance to Root Penetration	Resistant (UNE 53420)
Solar Reflectance (SR)	0.85 (ASTM E903-96)
Thermal Resistance (78°C for 90days)	Passed -No outstanding changes (EOTA TR – 011)
UV accelerated aging, in the presence of moisture	Passed -No outstanding changes (EOTA TR – 010)
Construction Material Fire Class	B2 (SIN 4102 – 1)
Chemical Properties / Resistance	Good resistance against acidic, seawater, detergent & oils.
Tensile strength	>6.5N/mm <sup>2</sup> ASTM D 412
Bonding strength	>2N/mm <sup>2</sup> ASTM D 412
Rain Stability Time	3-5 hrs (Condition: 20°C, 50% RH)
Light Pedestrian Traffic Time	18 – 24 (Condition 20°C, 50% RH)
Final Curing Time	5 - 7 Days (Condition 20°C, 50% RH)
Permeability to Water Vapor	Nil penetration ASTM E 96
Service temp	-10 °C min. / +80 °C max. (with reinforcement) -5 °C min. / +80 °C max. (without reinforcement)

## APPLICATION INFORMATION

Cure Time at 25°C	Full cure after 3 – 7 days
Re-coat time	4 to 12hrs
Storage condition	Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost
Ambient Air Temp	+8 °C min. / +40 °C max.
Substrate Moisture Content	<5% moisture content. No water / moisture / condensation on the substrate.

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## STORAGE AND 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 12 months maximum.

CONSEAL 250 is packed in 25kg bucket.

## LIMITATIONS

- Do not use on substrates where rising damp or a potential osmosis problem may exist.
- Do not proceed with application if atmospheric relative humidity is >90%.
- Do not proceed with product application if precipitation is imminent for work in exposed areas
- Ensure to keep applied areas protected from precipitation until fully cured or tack-free

## 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.

## LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in goodfaith 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.

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## 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.



*Performance As Promised*