

CONSEAL SYSTEM

**LIQUID APPLIED POLYURETHANE
WATERPROOFING MEMBRANES**



Next Generation Solutions For Today's Construction

www.costarchem.com

ROOF WATERPROOFING SYSTEM

A flat roof is constantly exposed to humidity, ultraviolet degradation, weathering, acid rain attack, mechanical wear and ongoing movement stresses, due to temperature changes. As a result, most flat roofs are leaking and require renovation.

The professional, long lasting, waterproofing solution is the

CONSEAL MEMBRANES

The **CONSEAL MEMBRANES** is a group of coatings based on Polyurethane resins, which used in combination, creates a seamless membrane on the flat roof, that protects the building structure reliably and on a long term basis, even under the most difficult conditions.



**Liquid Polyurethane
Waterproofing Membrane System**



● **Professional waterproofing applicators in over 40 countries, use the *CONSEAL MEMBRANES* for demanding waterproofing. The reasons are:**

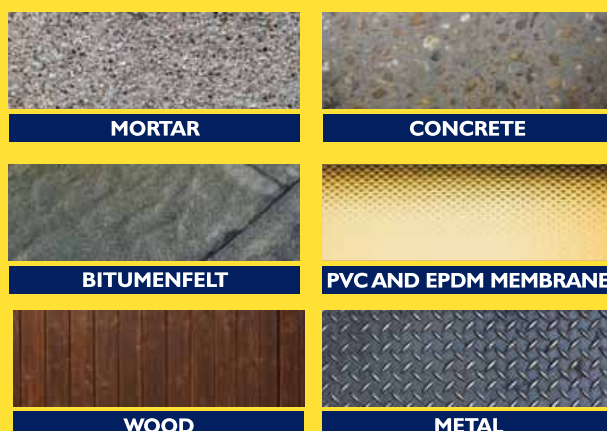
- Simple application.
- When applied, forms a seamless membrane, without joints or leak possibilities.
- Resistance to water.
- Crack-bridging up to 2mm, even at -100C.
- Maintenance of its mechanical properties, over a temperature span of -300C to +900C.
- Provides water vapour permeability.
- Provides full surface adhesion.
- Provides sun reflectivity, contributing to thermoinsulation.
- Provides anti-root properties.
- The waterproofed surface can be used for medium to heavy pedestrian traffic, depending on the *CONSEAL MEMBRANE* top-coat.
- Resistant to detergents, oils and common chemicals.
- Easy local repair, if the membrane is mechanically damaged.
- Low cost.



● **APPLICATION AREAS**

The ***CONSEAL POLYURETHANE MEMBRANES*** can be used on the following areas;

- **Roofs**
- **Balconies**
- **Terraces**
- **Wet areas**
- **Water tanks**
- **Flowerbeds**
- **Public Walkways**
- **Foundations, etc.**



The **CONSEAL POLYURETHANE MEMBRANES** consist of

CONSEAL PRIMER

CONSEAL 700

Two-component solvent free epoxy primer with high mechanical strength developed for use on metal and concrete surfaces.



CONSEAL WATERPROOFING COATINGS

CONSEAL 250

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. Conseal 250 has a service life of 25 years. When used with Conseal 270, can offer up to 35 years service life.



CONSEAL 270

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, bituminous membranes, steel, zinc, Aluminum)



CONSEAL 220

Solvent free, flexible PUD polyurethane coating designed for sealing and waterproofing of roofs, walls and other wet areas. board, cement sheet, brick and concrete walls.

application tools



Roller



Brush



Electric
paddle
drill



Sealant
application
gun



Liquid Jointless Polyurethane Waterproofing Membrane System

CONSEAL 250

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. **Conseal 250 has a service life of 25 years. When used with Conseal 270, can offer up to 35 years service life.**

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).

◆ BENEFITS

- Waterproofed surface provides excellent weather resistance and UV resistance
- Resistance to temperature variation
- 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
- Waterproofing of concrete, tiles and metal surfaces such as roof, terraces and balconies, planter boxes, retaining walls etc.

◆ APPLICATION AREAS

- 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.



◆ PACKAGE

25Litres

◆ COVERAGE

1.4-2.5Kg/m² applied in two to three layers.

CLASSIFICATION ACCORDING TO EOTA (EUROPEAN ORGANISATION OF TECHNICAL APPROVAL) & BBA (BRITISH BOARD OF AGREEMENT)

REQUIREMENT	CONSEAL 250	CONSEAL 250 + 270
Minimum expected working life	25 years	35 years
Climatic zone	S (Severe)	
User load	P1	P3
Roof slope	S1 - S4	
Minimum surface temperature	T13 (-20°C)	
Maximum surface temperature	Th4 (90°C)	Th3 (90°C)
Exposure to external fire	Broof (t1,t4)	
Reaction to fire	Class E	



Two-Component Polyurethane Waterproofing Membrane

CONSEAL 270

CONSEAL 270 is two component, 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, bituminous membranes, steel, zinc, Aluminum).

◆ BENEFITS

- Solvent free, cold applied
- When applied, forms a seamless leak proof membrane
- Excellent Crack bridging Properties
- Excellent adhesion to almost any surface
- 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

◆ COVERAGE

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.

◆ PACKAGE

Component A: 17Kg

Component B: 3Kg



◆ APPLICATION AREAS

- 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.



Two Components, Solvent Free, Epoxy Primer

CONSEAL 700

CONSEAL 700 Is two-component solvent free epoxy primer with high mechanical strength developed for use on metal and concrete surfaces.

◆ BENEFITS

- Ensures a hard and durable surface
- Seals surface preventing water, fuel and oil permeability
- Does not contain pigments
- Ensures safe use in places with poor ventilation
- Seamless dust free and easy to clean surface
- Excellent surface hardness, mechanical and resistance
- Excellent flexural and tensile strength
- Dense corrosion resistance surface

◆ APPLICATION AREAS

CONSEAL 700 can be applied as both primer and base coat over metal and concrete surfaces in;

- Factories
- Warehouses
- Shopping Centers
- Wastewater treatment plants
- Areas where heavy forklifts and corrosive chemicals are of concern

◆ COVERAGE

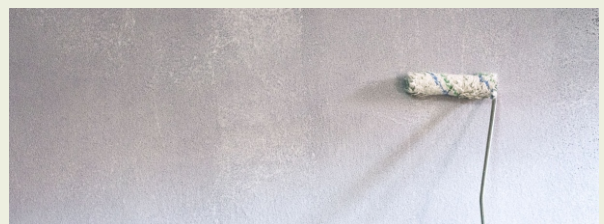
Total Minimum Consumption: 0.20-0.50 Kg/m²

Note; Note that consumption may vary depending on the state of the substrate

◆ PACKAGE

8.5Kg + 4Kg

17Kg + 8Kg



High Performance, Polyurethane hybrid UV stable, Waterproofing Membrane

CONSEAL 220

CONSEAL 220 is a solvent free, flexible PUD polyurethane coating designed for sealing and waterproofing of roofs, walls and other wet areas. The surface is a hard wearing and durable coating recommended for concrete, masonry, asphalt, metal and other similar surfaces. The coating is also recommended as a textured architectural finish coat for internal and external surfaces including blue board, cement sheet, brick and concrete walls.

◆ BENEFITS

- Excellent colour retention
- Water & weather proof performance
- Excellent ultra violet light resistance
- Excellent adhesion and mold/fungus resistance
- Resistant to frost and thawing salts
- High build coating for porous and uneven surfaces
- Water vapor permeable
- Improved hardness and flexibility
- Range of colors available

◆ APPLICATION INSTRUCTION

Stir well before using for at least 2-3 min. Apply the CONSEAL 220 onto the surface by roller or brush, until all surfaces are covered. A minimum two coats of membrane are essential for permanent results. Apply coats at right angles to prior coat.

◆ COVERAGE

Conseal 220 covers about 15-16 Square meters

◆ PACKAGE

20 Litres



ELIMINATE THE DANGER OF DETAILING

Because **CONSEAL 250 SYSTEM** is liquid, it cures to a permanently elastic, seamless membranes with long lasting protection. It eliminates the risk of failures from detailing.

Most waterproofing failures are as a result of detailing especially at joints, abstinents and difficult areas.

Conseal System eliminates the need for heat or additional mechanical fixings because it's a seamless membrane that adheres excellently well to the surface.





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