

CONSEAL 220

High Performance, Polyurethane hybrid UV stable,
Water Proofing Membrane



PRODUCT DESCRIPTION

Conseal 220 is a water based, polyurethane hybrid waterproofing membrane that cures to a permanently flexible seamless membrane with good adhesion to a wide range of substrates. Unlike more traditional bitumen based products, Conseal 220 does not brittle with age, exposure to ultra violet radiation or weathering, and hence it does not crack or craze due to its' flexible properties.

USES

- Suitable for use over various porous substrates including fiber cement, concrete, render brickwork, render polyurethane foam insulation and plasterboard.
- It can be used to waterproof basements, kitchens, bathrooms, balconies & decks, shower recesses, repair, and restoration of leaking roofs as well as a damp proof membrane in sandwich panel construction.
- It is also suitable for Deck / open roof areas, planter boxes and retaining walls provided it is protected from the effect of highly turbid water flow.

APPLICATION

Surface Preparation

Surface should be sound, clean, and free of dust, oil, grease and curing compound. Loosely adhered particles such as rust scale, cement smears should be thoroughly cleaned with a wire brush or another such implement.

All new concrete surfaces must be fully cured (6-8 weeks) with a semi-rough surface appearance. Freshly Rendered surfaces must be allowed to cure for a minimum of 7 days prior to the commencement of waterproofing and levelled to a slope.

Gypsum/Plasterboard sheets must be installed to the manufacturer's guidelines with all joints being

covered with a 50mm wide PP or PE tape whilst all screw/nail heads must be sealed with epoxy. When used as a wall substrate, sheet thickness should be a minimum 10mm thick.

Fiber Cement sheets when used as a floor/wall underlay sheets should be a minimum 6mm thick whilst compressed fibers cement sheets should be a minimum 9mm thick for walls and 15mm thick for floor applications. Ensure all Metal Surfaces are rust free with any hairline cracks being filled with a suitable gap filler whilst cracks larger than 2mm should be filled.

Priming

Prime surfaces with Conseal 220 diluted with 20% water, metal surfaces need to be primed with a suitable water based primer. The primer can be applied with a brush, roller or squeegee depending on the size of the area required to be primed. Allow 10–30 minutes at a temperature of 20 °C for the primer to dry before actual application of product.

Application Instruction

Once the primer is completely dry then apply first coat which when dried follow it up with the second coat at 90° right angles to the first coat ensuring a complete coverage. Please note that air bubbles trapped under the surface must be removed in order to achieve the maximum waterproofing effect. Apply third coat if required

NOTE: Please do not dilute any coat after the primer is applied

Consumption:

1,4 – 2 kg/m² applied in two or three layers to achieve a DFT of 1mm

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	20kg bucket
Shelf life	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging.
Appearance	Grey liquid
Storage condition	Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight and frost
Adhesion to Primed Concrete	> 1.2N/mm ² (ASTM D903).
Solid content by weight	~60 %
Density	~1.20 kg/l
E-Modulus at 20°C	~1.5N/mm ² (ASTM D 412)
Tensile strength at 20°C	~5N/mm ² (ASTM D 412)
Elongation at break	>250 % ASTM D-412
Permeability to Water Vapor	Nil penetration (BS EN 12390 Part 8)
Service temperature	-10 °C min. / +80 °C max. (with reinforcement) -5 °C min. / +80 °C max. (without reinforcement)
Light Pedestrian Traffic Time	20-24 hours (Conditions: 20°C, 50% RH)
Final curing Time (Ponding Test)	10 Days (Conditions: 20°C, 50% RH)

APPLICATION INFORMATION

Cure Time at 25°C	Full cure after 2 to 6hrs
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.



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LIMITATIONS

- Do not apply on substrates experiencing active rising damp or a potential osmosis problem may exist.
- Do not apply if atmospheric (RH) is >90%.
- Do not proceed with product application where rainfall is imminent for work in exposed areas
- Ensure to keep applied areas protected from precipitation until fully cured.

STORAGE AND SELF 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.

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

STANDARD COMPLIANCE

USGBC LEED rating: conforms to LEED SS Credit 7.2 - Heat Island Effect-Roof, SRI ≥ 78.

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 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.

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.

