

CONSEAL 300

Pure Bitumen Emulsion Waterproofing Membrane



PRODUCT DESCRIPTION

Crafted as a pure bitumen emulsion, CONSEAL 300 boasts outstanding elastic properties essential for durable waterproofing solutions. This single-component liquid application product efficiently dries to create a resilient, seamless, and black flexible coating, specifically designed for below-ground waterproofing applications such as basements, foundations, retaining walls, and similar surfaces.

FEATURES

- Rapid application and swift curing process.
- Forms a seamless membrane without any joints upon application.
- Highly resistant to water and frost.
- Exhibits exceptional crack-bridging properties.
- Maintains excellent thermal resistance without softening post-curing.
- Demonstrates superior adhesion to a wide spectrum of substrate types.
- Resists domestic chemicals like detergents effectively.
- Easy and prompt local repair of mechanical damage to the installed membrane within minutes.
- Application does not require the use of open flames (torch).
- Possesses antibacterial and anti-fungal properties.
- Shows low water permeability and can be applied to freshly poured concrete.
- Highly resistant to sulphates and ground salts.
- Formulated as a bitumen-based below-ground waterproofing membrane

APPLICATION AREA

- Waterproofing of Foundations
- Waterproofing of Retaining Walls
- Waterproofing of Basement.
- Under-tile Waterproofing in Bathrooms, Terraces, Roofs etc.
- Waterproofing of Roofs with inverted insulation
- Waterproofing of Asphaltic/Bitumen based felts etc.

METHOD OF APPLICATION

Surface Preparation

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane.

Maximum moisture content should not exceed 5%.

Substrate Investigation

Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine.

Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

Before Use

Stir well before using for at least 2-3 min.

Product Application

Apply CONSEAL 300 onto the surface by roller or brush, until all surfaces is covered.

Reinforce always with the CONSEAL Fabric material at problem areas, like wall-floor connections, 90° degree angles, chimneys, pipes, waterspouts (siphon), etc. After cutting the right sized fabric material, apply on CONSEAL 300 till fabric material is fully saturated, press it to soak, and saturate again with enough CONSEAL 300 when installed in its intended position.

RECOMMENDATION:

We recommend reinforcement of the entire surface, with the Geo-Textile Fabric Material. Use 5-10cm stripe overlapping. After 8-24 hours, apply another layer of CONSEAL 300.

For demanding applications, apply a third layer of CONSEAL 300. If the CONSEAL 300 is to be covered with ceramic tiles, fully saturate with oven-dry silica sand (corn-size 0.4-0.8mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

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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	Black slurry
Solid content by weight	~80 %
Density	~1.7 kg/l
Tensile strength	>5N/mm ² ASTM D 412
Bonding strength	>2N/mm ² ASTM D 412
Permeability to Water Vapour	Nil penetration ASTM E 96
Elongation at break	400 - 600%

APPLICATION INFORMATION

Cure Time at 25°C	Full cure after 8 to 12hrs (Dependent on application rate & area, puddle concentrations, and effective sunlight penetration).
Re-coat time	4 to 6hrs (Dependent on application rate & area, puddle concentrations, and effective sunlight penetration).
Drying Time @25°C	Touch dry (3-5 hrs) Walk on dry (1-2 day) Full cure dry (7 days)
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.

CONSUMPTION

An application rate minimum of 1litre per m² (in addition to the primer coat). Ideal application rate of approximately 2m²/ litre / coat, depending on the nature of the surface being treated is recommended.

LIMITATION

- Conseal 300 must be protected immediately after curing by using a suitable protection sheet or a
- in the application area section of this data sheet.

cement-sand screed or fibre cement board for floors.

- Avoid expose to direct sunlight.
- Avoid over coating with paints and if exposed to sunlight the paint film may crack.
- Conseal 300 is recommended for use only as described



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STORAGE AND SHELF LIFE

CONSEAL 300 is supplied in 20kg buckets. Protect the material against moisture and direct sunlight. Storage temperature: 50-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

STANDARD COMPLIANCE

Conforms to the requirements of SCAQMD rule 1168

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.