



## DESMOPOL CB - A SINGLE COMPONENT, MODIFIED POLYURETHANE WATERPROOFING MEMBRANE

DESMOPOL CB is a single component liquid made up from pure polyurethane modified with pitch bitumen, which once catalyzed forms a continuous elastic membrane, without any joints, overlapping or any integrated mesh needs. Its properties make it an excellent choice for achieving air-tightness and perfect waterproofing on a multitude of surfaces and substrates.

### USES

Liquid membrane to use in these waterproofing situations:

- roofs, terraces, balconies and overhangs (walkables)
- structural concrete slabs
- concrete walls and foundations

**NOTE:** call our technical department about the application to other supports or situation

recommended thickness	± 1,5~ 2 mm.
dry time at 23°C	± 5~6 hours
elongation at break at 23°C	>600%
tensile strength at 23°C	± 2,3 MPa
application methods	By roll, brush or airless equipment
widespread systems	± 2 thin layers by roll or brush to achieve the recommended thickness



### GENERAL FEATURES

- DESMOPOL CB is a highly elastic and wear-resistant membrane that, once applied, offers great stability, durability and waterproof
- Thanks to its versatility DESMOPOL CB adapts to any surface, making it the ideal product for application on uneven surfaces and in areas of any shape, whether curved or squared.
- No surface reinforcement is required, only singular points of encounters with other building elements.
- Green roof application
- Applying DESMOPOL CB saves in seals and any other kind of joints, as the finish is uniform and makes up a single layer, providing a surface with optimum maintenance and cleaning properties.
- The DESMOPOL CB polyurethane membrane system should be applied in dry conditions avoiding the presence of humidity or water coming from the surface to be coated or the substrate, whether at the time of application or subsequently (pressure from phreatic water level).
- If there is humidity or moisture in the substrate at the time of application, check the technical specifications of our primers where the maximum support humidity ranges are specified.



- The DESMOPOL CB system's properties enable it to bond to any surface, such as cement, concrete, polyurethane foam, butyl and bituminous sheets wood, polyurethane plates, metal, etc.
- DESMOPOL CB is immune to temperature changes of between -40°C and +70°C, conserving its elastic properties.
- The DESMOPOL CB polyurethane membrane is a self-leveling membrane that requires additives for its application on vertical and sloped surfaces more than 1,5% of gradient. Mix DESMOTHIX maximum ratio 1 liter for each 25 kg of DESMOPOL CB. You could apply on thin several layers too..

## YIELD

Product yield is 2,1 to 2,8 kg/m<sup>2</sup> with a thickness of 1,5 to 2 mm (aprox. data) applied on various coats; each coat yield 1 kg/m<sup>2</sup> maximum

## PACKAGING

Metal tins of 25 kg. each

## SHELF LIFE

12 months at temperatures between 5°C and 25°C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

## SURFACE PREPARATION

In general, you should take the following factors:

- Surface reparation ( fill the cracks and fissures, remove old existing waterproofing paints...).
- Clean up the surface, removing dust, oils and grasses, and existing chippings.
- Support will be strong and dry.
- The supports must be firm and dry. No moisture or humidity inside or by capillarity from the backfill.

You can apply DESMOPOL CB liquid waterproofing membrane over several supports and materials. Below we set out some of the application for the most common surfaces; for other surfaces not described, please call our technical department.

### Concrete substrate

- The concrete should be completely cured (concrete curing takes 28 days) or, in any case, the maximum level of humidity allowed for the substrate should be verified, depending on the primer used.
- Any concrete latencies or release agents should be eliminated and an open pore surface achieved by grit blasting, milling or sanding.
- Any cracks, and damaged areas must be repaired using a epoxy mortar, mixing our epoxy resin PRIMER EP-1020 with silica sand (ratio of  $\pm 1:4$ ), or the same resin mixed with calcium carbonate (ratio of  $\pm 1:2$ ).
- MASTIC PU must be used on fissures or small cracks in the surface.
- Existing joints or seals: remove the old material, clean up and fill with MASTIC PU and TECNOBAND 100 matting.
- Next one, clean up well and eliminate all contaminants from the elements, such as dust or chippings, using dry methods preferably.
- Apply the primer in the conditions and the parameters indicated in the technical specifications for these



products. On concrete, we recommended the two-component polyurethane resin PRIMER PU-1050 / PRIMER PU-1000 / PRIMER PUc-1050. See the TDS of each product before the application

- Apply DESMOPOL CB membrane depending on the chosen type (see "application types")

## APPLICATION

Once the surface preparation and primer application are done, as conditions, proceed to extends of the polyurethane membrane, using this following method:

### By layers application (traditional or classical application ):

- Open the DESMOPOL CB metal tin and stir up to homogenize
- Extended a first layer using a short hair roller, maximum thickness 0,8-1,0 mm, (applying the material without dilution)
- Wait for complete drying (depend on the weather conditions), about 5~6 hours
- Then, apply the next layer, in the same way as above
- Repeat this process as many times as necessary to achieve the desired or recommended thickness.

## HANDLING

These safety recommendations for handling, are necessary for the implementation process as well as in the pre-and post, on exposure to the loading machinery.

- Respiratory Protection: When handling or spraying use an air-purifying respirator.
- Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking or smoking.
- Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in air.
- Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.

Anyway, consult the material and safety data sheet of the product (MSDS)

## TECHNICAL DATA

PROPERTIES	VALUES
Specific gravity at 23°C	1.450 ±5% kg/m <sup>3</sup>
Viscosity at 23 °C	2.650 ±200 cps
Solid contents	>86% ±2
Tensile strength at 23°C	±2,3 MPa
Elongation at break at 23°C	>600%
Roof slope	zero slope
Fire reaction	Euroclass F
Anti roots	YES
Hardness Shore A at 23 °C	>80
Concrete adherence at 23°C	>2 MPa

