



# DESMOLAST

LIQUID-APPLIED ONE COMPONENT  
ELASTIC POLYURETHANE MEMBRANE

- ✓ Elastic behaviour
- ✓ Excellent adhesion to many porous surfaces even without the use of a primer.
- ✓ Crack-bridging ability
- ✓ Resistant to Abrasion
- ✓ Resistant to aging
- ✓ Resistant to hydrolysis and chemicals
- ✓ Resistance to mechanical strains

### GENERAL DESCRIPTION

EshaDesmoLast is an one component elastomeric waterproofing coating for horizontal surfaces, based on hydrophobic polyurethane resins. When in contact with ground and air moisture it polymerizes and creates a flexible and coherent membrane. This final membrane has the ability to deform more than 450% and follow substrate expansion without rupture, does not shrink and retains its elasticity in extreme temperature variations. It is also vapor permeable, reflective, easily cleaned and resistant to aging and UV radiation. For more UV resistance final coat of EshaDesmotop must be considered.

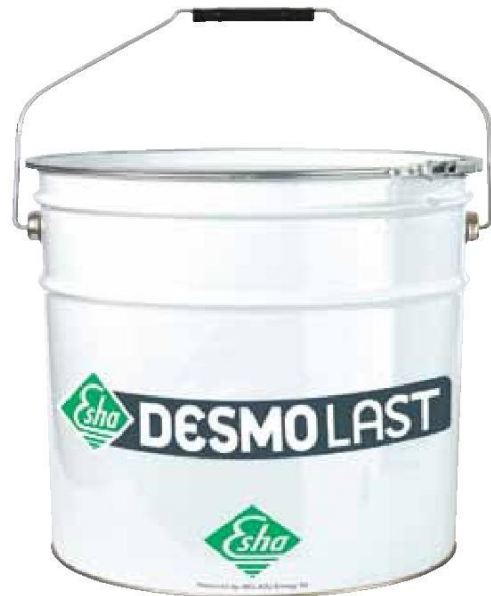
### USES

**DesmoLast is suitable for waterproofing of:**

- concrete surfaces as basements, roofs, porches and balconies
- metal plates, gypsum-boards & cement-boards
- old bituminous surfaces with mineral chipping top cover
- baths
- surfaces that undergo mechanical strains

**DesmoLast is not recommended for:**

- Unsound substrates
- Waterproofing swimming pool surfaces that come in direct contact with chemically treated water
- Potable water tanks



### INSTRUCTIONS FOR USE

#### Weather conditions

Avoid rainy weather and temperatures below 5 °C

#### Surface Preparation

- Surfaces should be regular, free from loose particles and dust, clean from oils and foreign matter. Blow them with compressed air. Avoid cleaning with water.
- Cracks should be primary filled with polyurethane joint sealant EshaPolyseal 1K.
- For concrete surfaces use Desmolast Primer PU or Desmolast primer aqua 2K , in order to improve the mechanical properties of the substrate surface.
- Wet substrates should be avoided.
- In cases of substrates with bituminous residues, EshaPrimer 23 should be used to prime the surface before applying DesmoLast.

#### Application

- **DesmoLast** is cold applied by roller or airless spray gun in two to three layers. Each new layer is applied in a criss-cross pattern with respect to the previous one, when the latter is dry. Time interval between two layers is at least 8-24 h and not more than 36 h. However, this largely depends on environmental conditions.
- It is recommended to apply the material with a thickness of not more than 0,5 mm / layer, to avoid trapping of bubbles. If there is any difficulty in spreading the material, Xylene solvent (up to 10% by weight) can be used to thin the material.
- Reinforcement (e.g. Eshaterra polyester fabric, glassfleece) may be used between two successive layers to increase the mechanical properties of the final film.
- A consumption of 1,3-2,0 kg/m<sup>2</sup> is recommended. The final consumption depends on the surface's roughness.



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**Curing time**

12 to 24 h for 1 mm thickness, depending on environmental conditions. Final material properties and mechanical strength: in 2-5 days

**Attention:** DesmoLast must not be applied during frost, rain or when the temperature is below 5 °C.

**CLEANING OF TOOLS**

Tools are cleaned with xylol solvent before the material has dried or by mechanical means in case it has already dried. Important to follow proper precautions written on the solvent's package / container.

**TECHNICAL CHARACTERISTICS**

PROPERTIES	NOMINAL VALUE	TEST METHOD
Surface membrane formation time	3-5 hrs, depending on weather conditions	
Viscosity	2000 - 2500 cPs	ASTM D 2196-86
Color	<b>White</b> / other colors upon request	Observation
Density	1,39 ± 0,05 g/cm <sup>3</sup>	ASTM D-1475
Elongation at break point	450 %	DIN 53504
Tensile strength	6,6 N/mm <sup>2</sup>	DIN 53504
Hardness	SHORE A: 60	ASTM D2240
Water vapour permeability	20 gr/m <sup>2</sup> /hr	ISO 9932
Adhesion to concrete	> 2 N/mm <sup>2</sup>	ASTM D903
Resistance to UV radiation and moisture exposure: 2000 h accelerated weathering, consisting of the following cycles  4h UV exposure, at 60 °C 4h moisture exposure, at 50 °C	Retains its mechanical properties and Elastic performance	ASTM G 53: QUV-se ACCELERATED WEATHERING CYCLIC CORROSION TESTER
Resistance to temperature variation	-40 °C to + 80 °C	
Application Temperature	+5 °C to + 40 °C	

Tolerances in the nominal values are in accordance with respective standards. Producer reserves the right to modify the properties of his products.



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### PRECAUTIONS

Flammable. Do not inhale vapors. Avoid contact with eyes and skin. In case of contact with eyes wash them immediately with plenty of water and ask for medical advice. Wear protective rubber gloves & safety goggles. In case of an accident or if you feel unwell ask for medical advice. Should not be used in spaces with insufficient ventilation. Keep away from heat, sparks and flame. Do not smoke during handling or use. Keep away from children. Keep only in the original container, tightly closed and dry in cool and well-ventilated place. Protect from moist, direct sunlight and heat.

People sensitive to isocyanates, with asthma, eczema or skin problems should avoid contact with the material including dermal contact. For professional use only. Should be disposed in accordance with the legislation for industrial waste disposal.

**Contains isocyanate compounds. Dangerous components: xylene**

For more information pls ask the material's MSDS from Esha sales dpt.

### SHELF-LIFE/ STORAGE

12 months from date of production if stored in a cool, dry place, in original unopened packaging. Once opened it needs to be consumed immediately.

### COLOURS

White (Tile-red, grey, black, green, blue only upon specific order)

### PACKING

In pails of 6 kg and 25 kg..

Directions given on or in the packages or containers will always prevail.

The information contained in this leaflet is, to the best of our knowledge, true and reliable and is supported by the present state of our knowledge. According to the care taken and the method of application, upon which we have no influence, the values are subject to divergence. Therefore for best results, prior to use, an application test should be made by the user under his own processing conditions.

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