

## Licalastic 150 PU

Liquid membrane with waterproofing and hydro-hardening solvent.



### MAIN FIELDS OF USE

#### It is particularly suitable to:

Restore deteriorated waterproofing systems. Protect and waterproof prefabricated or cast on site concrete.

#### Recommended applications:

Waterproof all the most common substrates used in construction in interventions on: roofs, balconies, terraces, even old screeds, also as a layer under the tile.

- Suitable substrates (indoors or outdoors):
- Concrete, cement mortars, gypsum-based materials
- Metal and glass
- Bituminous membranes, normal or slated, old or new
- Plaster and plasterboard
- Wooden roofs
- Ceramic floors, bathrooms, showers, vases and flower beds

### CHARACTERISTICS

**The simplicity of application:** roller, brush or spray (after dilution with **Licasol 150**).

**Superficially continuous**, once cured, it becomes a seamless membrane ideal for large surfaces.

**Reinforceable:** in demanding cases it can be reinforced with Texture 2000 fabric.

**Easily Repairable:** In case of mechanical damage, it can be repaired in a few minutes.

**Extraordinary adhesion power** even on difficult substrates such as asphalt, sheaths, EDPM.

**High mechanical and chemical properties** even in extreme conditions, just a few hours after application.

**The high surface hardness** can be walked over and used for the laying of tiles, can also be used as a final layer.

Conforms to **UNI EN 14891** and **1504-2** in class **C-PI-MC-IR**.

**UV resistant**, retains adhesion and elasticity from -30°C to +80°C (a slight change is possible).

**Moisture hardening**, residual moisture improves waterproofing while leaving transpiration feature unchanged.

### METHODS OF APPLICATION

#### Preparation of the substrate

The maximum moisture content of the substrate must not be > 5%, the compressive strength of the substrate must be at least 25 Mpa and the tensile strength must be at least 1.5 Mpa.

**1**\_Mechanically remove any friable or easily detachable parts, carefully clean the application area to remove: powders, detergents, oily substances, mineral or organic fats, waxes, traces of gypsum and salts.

**2**\_Perform surface preparation by sandblasting, milling, shot blasting, grinding or sanding; while on bituminous sheath all discrepancies must be eliminated and repaired.

**3**\_In the presence of surface moisture, treat the substrate with **Epoxy Cem TX** (Three-component epoxy-cement primer).

#### Preparation of the product

**1**\_Licalastic **150 PU** is ready to use and ensures a perfect homogeneity of the product it is however recommended to mix with a drill at low speed. In case of airless application, it is possible to dilute the product with 5% Licasol **150 PU** (specific solvent for **Licalastic 150 PU**), the use of different solvents prevent the product from hardening.

### Application

- 1\_Spread the product by brush, roller or airless according to the type of substrate, creating a uniform thickness coating.
- 2\_When the first coat has matured (about 24 hours depending on the climatic conditions), spread a second coat of product.
- 3\_Structural, connecting or control joints must be strictly reinforced with **Texture 2000** or **Licaband RL 12** (both shaped as omega); while for corners, edges, connections between walls-floor and in the interface between different materials, we recommend the use of **Licaband BTS 100**.
- 4\_The interposition of a reinforcement layer is necessary only in demanding cases (for example, the application on bituminous sheaths); proceed by drowning the **Texture 2000** reinforcement fabric on the first layer of still fresh material, making a slight pressure with a clean roller; once the material has hardened, proceed with the laying of the second coat of **Licasol 150PU**

To neutralise oils and plasticisers, typically exuded from the latest generation bituminous membranes, it is strongly recommended to treat the substrate with **LicaPrimer 600**.

### PRODUCT INFORMATION

Appearance	Grey, white, red or other colours fluid paste
Consumption	From 500 to 1500 g/m <sup>2</sup> , depending on the expected pedestrian traffic
Dry to the touch (22°C, 50% RH)	6-8 h
Time for loss of sensitivity to rain (22°C, 50% RH)	6 h
Over-application time (22°C, 50% RH)	<24 h
Complete drying (22°C, 50% RH)	10 d
Application temperature	From +5 ° to +35 °C
Storage in unopened original packaging	12 months in a dry place between +5° and +35°C
Packaging	Metal drums from 25 Kg – 4 Kg

### TECHNICAL DATA

Characteristic	Test method	Legal requirement	Performance
Density	EN ISO 2811-1		1480-1580 Kg/m <sup>3</sup>
Viscosity	EN ISO 2555		4500 +/- 1000 mPa*s
Non-volatile substances	EN ISO 3251		83-93%
UV resistance lamp P-500W	Internal		No visible defect
Hydrolysis (30d/55°C)	Internal		No visible defect
Elongation at breaking point	EN 12311-2		> 450%
Shore hardness A	EN ISO 868		> 70

### PERFORMANCE REQUIRED ACCORDING TO UNI EN 1504-2

Characteristic	Test method	Legal requirement	Performance
Permeability to CO <sub>2</sub> (Sd CO <sub>2</sub> )	EN 1062-6	>50 (m)	>50 (m)
Water vapour permeability (Sd)	EN ISO 7783-2	<5 (m)	<5 (m)
Capillary water absorption and liquid water permeability	EN 1062-3	<0.1 kg/m <sup>2</sup> h <sup>1/2</sup>	<0.1 kg/m <sup>2</sup> h <sup>1/2</sup>
Adhesion force by direct traction	EN 1542	> 1.5 MPa	> 1.5 MPa
Cracking resistance (23°C)	EN 1062-7	Resistance class	≥A5 B4.1
Impact resistance	EN ISO 6272-1	Resistance class	Class I
Resistance to abrasion	EN ISO 5470-1	Threshold value	< 3000 mg
Exposure to artificial atmospheric agents	EN 1062-11		No swelling, cracking, de-lamination, opacifying, crumbling
Fire classification of construction products and construction products	EN 13501-1	Euroclass of fire resistance	F
Hazardous substances			No release

## PERFORMANCE REQUIRED ACCORDING TO UNI EN 14891

Waterproofing product applied liquid to be used under tiling glued with adhesive			
Characteristic	Test method	Legal requirement	Performance
Initial tensile adhesion strength	UNI EN 14891 A.6.2	≥0.5 N/mm <sup>2</sup>	≥0.5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	UNI EN 14891 A.6.3	≥0.5 N/mm <sup>2</sup>	≥0.5 N/mm <sup>2</sup>

## WARNINGS

- Product for professional use.

In the case of applications other than those indicated in the sheet, it is advisable to carry out a suitability check in advance and/or contact the licata Technical Service for further information.

- Always check the colour, texture and appearance before application. Any claims regarding this will not be accepted once the product has been applied.
- Do not apply in extreme conditions such as on icy surfaces or in the presence of fog/excessive ambient humidity.

To avoid aesthetic and functional defects, adequate shielding must be provided in case of direct exposure to sunlight.

- Make sure that the ambient, substrate and product temperatures during application and drying are between +5°C and +35°C.
- Properly care for the product until it is completely dry and at least in the first 48-72 hours, protecting it from rain, wind, weather and direct sunlight.
- The temperature and humidity can accelerate (if high) or slow down (if too low) even drastically the maturation process, until it stops completely.
- The presence of scaffolding, the use of natural raw materials and the impossibility of controlling atmospheric conditions and the substrate can lead to signs of recovery and inhomogeneity for which licata SpA is not responsible.
- The fresh product can be washed with water.

## SAFETY

Protect eyes and hands during application.

Read and keep the latest version of the Safety Data Sheet available for information on the correct disposal, storage and handling of the product.

## NOTES

This data sheet replaces and voids all previous versions.

The instructions and performance information given in this document are based on our current technical-scientific knowledge and must in any case be considered purely indicative and refer to standard laboratory conditions. The purchaser must, therefore, check that the product is suitable for his specific requirements. All the documentation necessary for the safe use of licata SpA products is available in its most up-to-date form on the **licata SpA** company website. Additionally, our technical-commercial network guarantees a quick inquiry and remains available to you for information and explanations. For further information, contact the licata Technical Service at [servizio-tecnico@licataspa.it](mailto:servizio-tecnico@licataspa.it)

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