

## Licalastic 150 PU

Liquid waterproofing single-part solvent-based membrane, polyurethane resin-based, damp curing with high adhesion strength. UNI EN 1504-2 certified.

**Licalastic 150 PU** is a liquid waterproofing single-part solvent-based membrane, polyurethane resin-based, damp curing with high adhesion strength, applied by roller, brush and spray. Once cured, it creates a continuous and permanent waterproof barrier both above and under tiles. **Licalastic 150 PU** meets the requirements of **UNI EN 1504-2** coating (C), against penetration risks 1.3 (PI), damp control 2.2 (MC) and increase in durability 8.2 (IR). Its particular formulation, based on totally elastomeric and water-repellent resins, gives the product excellent physical and chemical durability even in extreme weather conditions. **Licalastic 150 PU**, is UV-resistant and retains its elastic properties, even at temperatures between -30°C and +80°C.



### MAIN FIELDS OF USE

**Licalastic 150 PU** has been formulated to ensure best performance in sealing and protection of :

- Roofs
- Balconies
- Terraces
- Old screeds, provided they are structurally sound
- Precast or cast-in-situ concrete
- To extend the life of worn-out waterproofing systems
- As a water barrier under tiles.

In case of application on other surfaces, please contact the technical department.

### CHARACTERISTICS

#### • Easy to apply

**Licalastic 150 PU** is a single-part product ready to use, it can be laid as is under cold conditions, by roller, brush or spray.

#### • No-joint

When cured **Licalastic 150 PU**, forms a continuous membrane without joints, thus allowing water tightness in large surfaces.

#### • Can be reinforced using **Licalastic 150 PU** strengthening fabric

#### • Easily resettable

Should the membrane suffer physical damage, it can easily be repaired in minutes.

#### • High adhesion strength

**Licalastic 150 PU** is characterised by high adhesion strength on almost all substrates used in construction, asphalt, bituminous membranes and EDPM.

#### • High physical properties

Its particular formulation, based on totally elastomeric and water-repellent resins, gives the product excellent physical and chemical durability even in extreme weather conditions, in addition it is rainproof after a few hours from application.

#### • UNI EN 1504-2 certified

**Licalastic 150 PU** meets the requirements of **UNI EN 1504-2** coating (C), against penetration risks 1.3 (PI), damp control 2.2 (MC) and increase in durability 8.2 (IR).



- **Good water vapour permeability**

- **UV-resistant**

**Licalastic 150 PU** is UV-resistant (slight discoloration) and keeps its elastic properties, even at temperatures between -30°C and +80°C.

- **Can be walked on**

## MODALITÀ DI APPLICAZIONE

### Surface preparation

Remove any loose or easily detachable parts. Thoroughly clean the application area so that it is completely dry, free from dust, residues of surface treatments such as: detergents, oily substances, mineral or organic grease, waxes, traces of gypsum and salts. The maximum surface moisture content must not be > 5%. The compressive strength of the substrate must be at least 25 MPa, the tensile strength at least 1.5 MPa. In any case, we recommend preparing the surface through sandblasting, milling, shot peening, smoothing or sanding. Any sitting water has to be removed or dried from the surface. On the bituminous membrane, all curls and cracks must be dug out and repaired. On damp surfaces, treat the surface with the special primer **EpoxyCem TX** (Epoxy three-part primer).

In case of application to other surfaces, please contact the technical department.

### Mix preparation

**Licalastic 150 PU** is ready to use, for consistent homogeneity of the product we suggest stirring with a low-speed drill. If using an airless-spray, you can dilute **Licalastic 150 PU** can be diluted 5% max only with **Licasol 150**. Diluting with a different product will impede the product hardening.

### Application

Apply a first coat of **Licalastic 150 PU** with a brush, roller or airless spray on the surface initially primed with **Licaprimmer 600** or **Licaprimmer 440**. When the first coat is cured (approximately 24 hours depending on ambient conditions), apply a second coat. The insertion of reinforcement support is not necessary, but for severe cases (eg: in the presence of bituminous membranes), a ply of **Texture 2000** reinforcement fabric can be sandwiched between the wet coats, then applying light pressure with a clean roll. Structural buttss, expansion or contraction joints, must be reinforced with **Texture 2000** or **Licaband RL12** tape (*omega shaped*). For corners, borders, wall-to-floor joints and at the boundary between different materials, we recommend the use of **Licaband BTS 100** self-adhesive tape. To neutralize the transfer of oils and plasticizers present in several next generation bituminous membranes, it is strongly recommended to treat the surface with **Licaprimmer 600**. For long-lasting protection, you can finish off with, **Top Layer 100**, a coloured polyurethane resin-based coat, wear-resistant, non-yellowing and with high elasticity.

Please ensure that the environment, surface and product temperatures during application are between +5°C and +35°C.

## PRODUCT DETAILS

Appearance	Liquid paste grey, white, red or in other colours
Usage	From 0.5 to 0.8 Kg/m <sup>2</sup> , approximately 1.8 Kg/m <sup>2</sup> per mm of solid membrane needed
Touch-dry (22 °C, 50% R.H.)	6-8 h
Rainproof time (22 °C, 50% R.H.)	6 h
Time between coats (22 °C, 50% R.H.)	<24 h
Completely dry (22 °C, 50% R.H.)	10 d
Application temperature	From +5° to +35°C
Storage	6 months in a dry and shielded place in unopened bags, at temperatures between + 5 ° and + 35 ° C
Packaging	Tin containers of 25 Kg – 4 Kg

## Performances required according to UNI EN 1504-2

Characteristic	Test method	Regulatory requirement	Performance
Permeability to CO <sub>2</sub> (Sd CO <sub>2</sub> )	EN 1062-6	>50 (m)	>50 (m)
Water vapor permeability (Sd)	EN ISO 7783-2	<5 (m)	<5 (m)
Capillary absorption and 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>
Direct tensile adhesion strength	EN 1542	>1.5 MPa	>1.5 MPa
Resistance to cracks (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 expansion, cracks, delamination, matting, chalking
Fire rating of construction products and building products	EN 13501-1	Fire resistance euroclass	F
Dangerous substances			No trace

## PERFORMANCE

Characteristic	Test method	Regulatory requirement	Prestazione
Density	EN ISO 2811-1		1480-1580 kg/m <sup>3</sup>
Viscosity	EN ISO 2555		4500 +/- 1000 mPa*s
Non-volatile compounds	EN ISO 3251		83-93%
UV P-500W lamp resistance	Internal		No visible deficiency
Hydrolysis (30d/55°C)	Internal		No visible deficiency
Elongation at break	EN 12311-2		> 450%
Shore A Hardness	EN ISO 868		> 70

## Performances required according to UNI EN 14891

### Liquid waterproofing product to be used under tile adhesive

Characteristic	Test method	Regulatory 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 immersion in water	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.
- Chemical material: please use the PPE provided by current regulations, protect eyes and skin during application.
- After use, clean the tools while the mix is still wet.
- As this is a damp curing product, the surrounding relative humidity affects considerably the hardening speed.
- The product can be stored for 9 months, if properly stored in original packaging, kept in a dry and sheltered place at temperatures between +5 °C and + 35 °C.

**SAFETY**

For information on the correct disposal, storage and handling of the product, please refer to the corresponding Safety Data Sheet.

**NOTE**

This technical data sheet replaces and annuls previous versions.

The information and performance data provided above are based on our current technical and scientific knowledge, they are deemed as merely indicative in as much as application conditions are beyond our control. The purchaser must therefore verify the suitability of the product according to each specific case, assuming any responsibility deriving from its use. Our technical-commercial support will provide fast advice and is at your disposal for any further information on the use and workability **licata SpA**.

**Rif. Scheda: 110/17.2**