

## Licalastic 150 PU

Single-component, solvent-based waterproofing liquid membrane, made with polyurethane resins, water hardening and with high adhesion strength. Certified according to UNI EN 1504-2.

**Licalastic 150 PU** is a single-component, solvent-based waterproofing liquid membrane, made with polyurethane resins, water hardening and with high adhesion strength, applied with a roller, a brush or by spraying. Once polymerised, it creates a continuous and lasting waterproof system both on the exposed face and under the tile. **Licalastic 150 PU** meets the requirements of **UNI EN 1504-2** for coating (C), for protection against ingress 1.3 (PI), moisture control 2.2 (MC) and increasing resistivity 8.2 (IR). Its special formula, based on completely elastomeric and water-repellent resins, lends the product outstanding mechanical strength and chemical resistance, even in extreme weather. **Licalastic 150 PU** is UV resistant and retains its elastic properties, even at temperatures of between -30 °C and +80 °C.



### MAIN AREAS OF APPLICATION

**Licalastic 150 PU** was formulated to ensure best performance in waterproofing and protection work on:

- Roofs
- Balconies
- Terraces
- Screeds, including old ones, provided they are structurally stable
- Prefabricated concrete or cast in-situ
- To extend the useful life of deteriorated waterproofing systems
- For waterproofing underneath the tile.

For application on other types of substrates, please contact our engineering department.

### CHARACTERISTICS

- Easy to apply: **Licalastic 150 PU** is a ready to use single-component product, when cold, laid as it is, using a roller, a brush or spraying.
- Absence of joints: once polymerised, **Licalastic 150 PU** creates a continuous join-free membrane, thus allowing the waterproofing of large surfaces.
- Possibility of reinforcing it with specific reinforcement fabric **Texture 2000**.
- Easy to restore: should the membrane undergoes mechanical damage, it can easily be repaired in just a few minutes.
- High adhesion strength: **Licalastic 150 PU** stands out for its superior adhesion strength on almost all substrates used in construction, asphalt, bitumen sheaths and EDPM.
- Superior mechanical properties: Its special formula, based on completely elastomeric and water-repellent resins, lends the product outstanding mechanical strength and chemical resistance, even in extreme weather; in addition it withstands rain just a few hours after application.
- Applicable under tiles: **Licalastic 150 PU** is compatible with adhesives for tiles in class C2 of the **licata.koll** family (we always recommend the use of the high-performance deformable adhesive **Super S1**).



- **UNI EN 1504-2** certified: **Licalastic 150 PU** meets the requirements of UNI EN 1504-2 for coating (C), for protection against ingress 1.3 (PI), moisture control 2.2 (MC) and increasing resistivity 8.2 (IR).
- Allows good breathability of the substrate.
- Good water vapour permeability.
- UV resistant: **Licalastic 150 PU** is UV resistant (slight colour fading) and retains its elastic properties, even at temperatures of between -30 °C and +80 °C.
- Can be walked over.

## APPLICATION METHOD

### Preparing the substrate

Mechanically remove all flaking parts or easy to peel off. The surface must be dry and free any trace of dust or residue from surface treatments such as: detergents, oily substances, mineral or organic greases, waxes, traces of gypsum and salt. All cementitious screed must be provided with control (fractioning) joints, roughly every 9 m<sup>2</sup>, as per the present regulations. The maximum humidity rate of the substrate must not be > 5%. The compression resistance of the substrate must be at least 25 Mpa, and tensile strength at least 1.5 Mpa. In any case, it is advisable to prepare the surface by sand-blasting, milling, shot-peening, smoothing or sanding. Make sure there is no free water stagnating on the substrate, if this is the case, it must be removed or dried. All deformities on the bitumen sheath must be eliminated and repaired. In the presence of surface humidity, treat the substrate with **EpoxyCem TX** (three-component epoxy-cement primer). For application on other types of substrates, please contact our engineering department.

### Preparing the product

**Licalastic 150 PU** is ready to use; however, to obtain perfect evenness of the product, it is advisable to mix it with a drill at low speed. In the case of applications with airless, **Licalastic 150 PU** can be diluted up to 5% solely with **Licasol 150**. Different thinners cause lack of hardening of the product.

### Application

On the duly prepared substrate, apply with a brush, a roller or airless a first coat of **Licalastic 150 PU**. Once the first coat has cured (approximately 24 hours depending on the weather), apply a second coat. Placing a reinforcement in between is not necessary, but in challenging cases (e.g. in the presence of bitumen sheaths), embed between the first coat that is still fresh and the second coat a layer of reinforcement fabric **Texture 2000**, pressing gently with a clean roller. Connecting joints, structural or control joints must under all circumstances be reinforced with **Texture 2000** or **Licaband RL12** band (shaped to form an Omega). In corners, edges, in floor-wall connections and in the interface between different materials, we recommend the use of the self-adhesive band **Licaband BTS 100**. To neutralise the migration of oils and plasticizers, contained in several latest-generation bitumen membranes, it is strongly advisable to treat the substrate with **Licaprimer 600**.

In order to achieve durable protection over time, you can use as the last coloured topcoat layer **Top Layer 100**, a coating made with polyurethane resins, resistant to wear, non-yellowing, with high degree of elasticity.

Make sure the temperature of the room, of the substrate, and of the product during application falls between +5 °C and +35 °C.

## PRODUCT INFORMATION

Appearance	Fluid grey, white, red or other coloured paste
Consumption	0,5 - 0,8 kg per hand; approx. 1,8 kg/m <sup>2</sup> circa per mm of dry product
Dry to touch (22 °C, 50% R.H.)	6-8 h
Time required to become insensitive to rain (22 °C 50% R.H.)	6 h
Paint over time (22 °C, 50% R.H.)	<24 h
Completely dry (22 °C, 50% R.H.)	10 d
Application temperature	Between +5 °C and +35 °C
Storage	6 months in a dry, protected place in sealed packs, at temperatures of between +5 °C and +35 °C
Packaging	25 kg - 4 kg metal drums

## PERFORMANCE levels required according to UNI EN 1504-2

Characteristic	Test method	Normative requirement	Performance
Permeability to CO <sub>2</sub> (Sd CO <sub>2</sub> )	EN 1062-6	>50 (m)	>50 (m)
Permeability to water vapour (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 traction adherence	EN 1542	>1.5 MPa	>1,5 MPa
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives	UNI EN 14891		
- Initial adhesion strength		≥0.5 MPa	Passed
- Adhesion strength after immersion in water		≥0.5 MPa	Passed
Resistance to cracking (23°C)	EN 1062-7	Resistance class	A5 B4.1
Shock resistance	EN ISO 6272-1	Resistance class	Class I
Abrasion resistance	EN ISO 5470-1	Threshold value	< 3000 mg
Artificial exposure to atmospheric agents	EN 1062-11		No blistering, cracking, delamination, dulling, chalking
Fire classification of construction products and building products	EN 13501-1	Resistance-to-fire Euroclass	F
Hazardous substances			None released

## PERFORMANCE

Characteristic	Test method	Normative requirement	Performance
Volumic mass	UNI ISO 2811-1		1489-1580 kg/m <sup>3</sup>
Viscosity	UNI ISO 2555		4500 +/- 1000 mPa*s
Non volatile substances	EN ISO 3251		83-93%
Resistance to UV lamp P 500W	Internal		No visible failure
Hidrolisys (30d/55°C)	Internal		No visible failure
Stretching resistance	EN 12311-2		>450%
Shore hardness A	EN ISO 868		>70

## WARNINGS

- Professional-grade product.
- Chemical material: use personal protection devices as envisaged by the applicable regulations in force, protect both eyes and skin during application.
- After use, clean tools while the product is still fresh.
- Since this is a moisture curing product, the relative humidity in the room strongly affects the speed of hardening.
- The product can be stored for 6 months, when stored correctly in its original pack, kept in a protected dry place at a temperature of between +5 °C and + 35 °C.

## SAFETY

As regards the information concerning proper product disposal, storage and handling, please consult the relevant Safety Data Sheet.

## NOTES

This technical data sheet replaces and cancels all previous versions.

The indications and performance levels provided in this document are based on our current technical-scientific knowledge and in any case should be considered as purely indicative since the conditions of use are in no way under our control. The purchaser must therefore check the suitability of the product for his or her specific needs, assuming all responsibility deriving from its use. Our technical-sales network guarantees a speedy response and is at your disposal for any clarifications or queries regarding the use and processing of **licata SpA** products.

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