

## Licalastic 300 Crystal

Elastic polyurethane waterproofing, transparent and wear-resistant.



### MAIN FIELDS OF USE

#### It is particularly suitable to:

Waterproof without aesthetic alterations balconies, verandas, terraces, mosaics and the like.

#### Recommended applications:

Waterproof all the most common materials used in construction, in particular exposed substrates and transparent materials. Seal damaged glass, protecting it against splintering in case of breakage.

- Suitable substrates (indoors or outdoors):
- Marble and natural stones
- Glassy mosaics
- Glass
- Transparent plastic materials
- Wood and bamboo
- Concrete, mortars and all the most common substrates used in construction

### CHARACTERISTICS

**The ease of application**, typical of single-component materials that do not require other preparations.

**The resistance** to chlorine and all common aggressive atmospheric agents make it an ideal material for outdoor use.

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

**Extraordinary adhesion power** on almost all the substrates used in construction.

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

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

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

### METHODS OF APPLICATION

#### Preparation of the substrate

Before applying **Licalastic 300 Cristal**, check the compatibility of the product with the surfaces to be treated in terms of adhesion and chemical compatibility. Make sure that the substrate has a tear resistance of at least 1.5 MPa, a moisture content not exceeding 5% and perform the following operations:

- **New substrates:** they must be thoroughly solid, dry and the concrete substrates must have matured for at least 28 days.
- **Degraded or crumbled substrates:** remove any friable, poorly cohesive or detachable parts
- **Ceramic flooring:** must be cleaned and/or primed beforehand with **LicaPrimer 600** or **Licaprimmer 440 A+B**, then treated with the appropriate **LicaFlex 100** polyurethane sealant. In any case, carry out a surface preparation of the substrate by sandblasting, milling, shot blasting, grinding or sanding depending on the type of surface.

In all cases, the substrate must be clean, planar, cohesive, free from any type of detaching substance and water.

**Application**

**1A**\_Pour the product on the previously treated substrate and roll it out over the entire surface

**2A**\_maturation of the first coat, (after about 12 hours depending on the climatic conditions, but not more than 36 hours), spread a second one.

**3**\_A possible third coat can be applied if you want to obtain better and lasting protection over time.

**PRODUCT INFORMATION**

Appearance	Transparent fluid liquid
Composition	Aliphatic polyurethane resin
Application temperature	+ 5 °C – 35 °C (50% RH)
Theoretical consumption	0.8 – 1.2 Kg/m <sup>2</sup>
Walk over time At 20°C and 50% RH	8 - 12 hours
Subsequent coats 20°C and 50% R.H.	12 - 36 hours
In-depth hardening 20°C and 50% RH	12 hours
Deep hardening at 20 °C and 50 % R.H.	48 hours
Full hardening 20 °C and 50% R.H.	7 days
Storage in unopened original packaging	12 months in a dry place, at 20°C, 50% RH
Packaging	5Kg metal tin

**TECHNICAL DATA**

Characteristic	Test method	Performance
Elongation at breaking point	DIN EN ISO 527	>300%
Tensile strength	DIN EN ISO 527	>20 N/mm <sup>2</sup>
Measurement of elasticity E	DIN EN ISO 527	E >30 N/mm <sup>2</sup>
Maintenance of brightness after 2000 hours of artificial ageing according to DIN EN ISO 4892-3, 400 MJ/m <sup>2</sup>	DIN 67530	Good
Degree of surface crumbling after 2000 hours of artificial ageing according to DIN 4892-3, 400 MJ/m <sup>2</sup>	DIN EN ISO 4628-6	No crumbling was presented.
Permeability to vapour	EN ISO 12572	>5 g/m <sup>2</sup> /day
Resistance to water pressure	DIN EN 1928, Test A	No leakage
Adhesion to ceramic tiles	>1.8N/mm <sup>2</sup> (tile destruction)	ASTM D 903
Hardness (Shore A Scale)	85	ASTM D 2240
Resistance to acid and alkaline solutions (10%), sea water, detergents and oils.		Good

**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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