

Licalastic 300 Cristal

Transparent single-component waterproofing coating, based on aliphatic polyurethane resins, resistant to wear and UV rays, with a high degree of elasticity

Licalastic 300 Cristal is a solvent-based aliphatic polyurethane resin coating, ideal as a clear protective and waterproofing layer for the most commonly used cement-based substrates in building, any type of ceramic tiles, stone and glass, even cracked. Its special formulation, based on latest-generation resins, gives the product excellent mechanical-superficial resistance (impact and abrasion), high elasticity and stability to ultraviolet rays and preserves all its properties even in temperatures between -30 °C and +90 °C. Resulting from research by **Licata S.p.A. labs, Licalastic 300 Cristal** does not yellow or crumble on the surface; it resists freezing, water stagnation, acid rain, alkaline attack of the substrate, sea water, detergents, acid and alkaline solutions (10%), detergents and oils. Licalastic 300 Cristal **is easy to work** and should be applied with a roller. Once polymerised, it creates a continuous membrane with no joints, thus allowing large surfaces to be waterproofed.



MAIN FIELDS OF USE

Given its characteristics of elasticity, mechanical strength, chemical and surface resistance, and resistance to UV rays, **Licalastic 300 Cristal** is ideal for the long-term waterproofing of:

- Balconies and verandas
- Any type of ceramic tiles (double-fired, single-fired, porcelain stoneware, clinker, terracotta, etc.)
- Marble and natural stone
- Glass mosaics
- Cracked glass: it waterproofs and protects, if broken, by trapping the splinters.
- Clear plastic materials
- Wood and bamboo
- Concrete and the most commonly used cement-based substrates in building

To apply on different substrates, please contact our technical department.

CHARACTERISTICS

- Easy to apply: **Licalastic 300 Cristal** is a single-component, ready-to-use coating.
- UV resistant
- It does not yellow or crumble on the surface: resulting from the research of **Licata S.p.A. labs, Licalastic 300 Cristal** does not yellow or crumble on the surface even in the harshest weather conditions.
- High binding power: it is ideal as a transparent, waterproofing protective layer of the most commonly used substrates in building, any type of ceramic tiles, stone and glass, even cracked.
- High mechanical and surface strength. The special formulation, based on latest generation resins, gives the product excellent mechanical strength and surface resistance (impact and abrasion) and high elasticity.
- Resistance to frost and water stagnation
- No joints: once polymerised, **Licalastic 300 Cristal** creates a continuous membrane with no joints, thus allowing large surfaces to be waterproofed.
- Easily repaired: if the membrane suffers mechanical damage, it can be easily repaired within minutes.



- Working temperature from -30 °C to +90 °C in air: **Licalastic 300 Cristal** also preserves all its properties in temperatures between -30 °C and +90 °C.
- Set to light foot traffic

APPLICATION METHOD

Preparation of the substrate

Mechanically remove any flaking or easily detached parts. Thoroughly clean the application area so that it is free of dust and residue from surface treatments, such as detergents, oily substances, mineral or organic oil, wax, traces of gypsum or salt. The substrate must have a pull-out resistance of at least 1.5 MPa. In any case, the surface must be prepared, depending on the type of surface, by sand-blasting, milling, shot peening, honing or sanding. Running and stagnant water from below ground, previous washes or wet weather must be removed or dried using appropriate means. The maximum level of humidity in the substrate must not be > 5%. If the concrete is newly laid, it must be cured for at least 28 days.

Cracks and expansion joints, which have been duly cleaned and/or primed with **LicaPrimer 600** or **LicaPrimer 440**, must be treated with the polyurethane grout, **LicaFlex 100**. Substrates with little or no absorbent properties, such as ceramic tiles, glass, etc., can be primed beforehand with **LicaPrimer 300 Cristal** (primer specifically for tiles), by soaking a clean sheet and treating the entire surface that you want to waterproof. If you want to apply **Licalastic 300 Cristal** on a ceramic tiled floor, make sure that there is no rising efflorescence around the joints. We recommend checking the compatibility of the product, before use, with the surfaces being treated for adhesion and chemical compatibility. Do not wash the substrate with water.

These simple steps and expedients will ensure that the waterproofing is effective and long-lasting.

Preparation of the product

Ready-to-use product.

Application

Pour **Licalastic 300 Cristal** on the substrate that has been pre-treated and spread over the entire surface with a roller. When the first coat has cured (after about 12 hours depending on the weather conditions, but not beyond 36 hours), apply a second coat. A third coat can be applied if you want to obtain better, more durable protection. The thickness of each layer should not be > 1 mm; the final thickness should be between 2 and 3 mm. Do not apply **Licalastic 300 Cristal** in extreme conditions, such as substrates exposed to full sun or freezing temperatures.

Make sure that the temperatures of the environment, substrate and product during the application are between +5 °C e +35 °C. Low temperatures delay hardening while high temperatures accelerate it.

PRODUCT INFORMATION