

LicaPrimer 440

Universal two-component anti-corrosion primer made with epoxy resins, specifically designed for difficult substrates such as metal, galvanised steel, ceramics, glass, etc.

LicaPrimer 440 meets the requirements of the UNI EN 13813 standard

LicaPrimer 440 is a two-component primer made with epoxy resins, formulated specifically to treat difficult substrates, such as: metal, galvanised steel, ceramics, bitumen sheaths, etc., before laying polyurethane sealants and waterproofing membranes. Formulated in **Licata S.p.A.** laboratories, it boasts superior resistance to corrosion, to aggressive chemicals, excellent adhesion and it retains all its properties, even at temperatures of between -25 °C and +110 °C (in air) and +60 °C (in immersion). **LicaPrimer 440** can be applied by brush, by roller as well as airless spraying, effectively meeting all the application requirements of construction sites; in addition, it meets the requirements of the **UNI EN 13813** standard.

MAIN AREAS OF APPLICATION

LicaPrimer 440 is a universal anti-corrosion primer, ideal for extremely difficult substrates such as:

- Carbon steel
- Galvanised steel
- Aluminium
- Ceramics
- Glass
- Plastic
- Bitumen membranes
- Old coatings
- Concrete, etc.

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

CHARACTERISTICS

- High corrosion resistance
- Can be painted over after 24 h
- Universal: specifically formulated to treat difficult substrates, such as: metal, galvanised steel, ceramics, bitumen sheaths, etc.
- Superior performance, even in extreme weather: **LicaPrimer 440** retains all its properties, even at temperatures of between -25 °C and +110 °C (in air) and +60 °C (in immersion).
- Easy to apply: **LicaPrimer 440** can be applied by brush, by roller, or even airless spraying, effectively accommodating all the application requirements of construction sites.



APPLICATION METHOD

Preparing the substrate

Mechanically remove all flaking parts or easy to peel off. Clean the application area thoroughly by sand-blasting, jet washing or shot-peening. The maximum humidity rate of the substrate must be < 5%.

- On carbon steel

When used as an adhesion promoter on carbon steel, arrange sand-blasting with grade Sa21/2.

- On galvanised steel

When used as an adhesion promoter on galvanised steel, clean with solvents or detergents, and brushing for rusty surfaces.

- On glass, ceramics, tiles, etc.

When used as an adhesion promoter on glass, ceramics, tiles, stoneware, etc., clean thoroughly with detergents and light sand-blasting or shot-peening.

- On fibreglass and plastic

When used as an adhesion promoter on fibreglass and plastic, arrange sanding or sand-blasting.

• On concrete

When used as an adhesion promoter on concrete substrates, make sure the compression resistance is at least 25 Mpa, the tensile strength at least 1.5 Mpa and, when just made, that it has been seasoned at least 28 days. Holes or macro cracks must be filled with **Repair 250 N/R**, **Repair 450** or with **Epoxy 220**. Free water stagnating on the substrate or originating from previous washing operations or from weather phenomena must be removed or dried with appropriate equipment. In the presence of rising damp or penetrating damp, it is vital that you pre-treat the substrate with the dedicated three-component primer **EpoxyCem TX**.

- On bitumen sheaths

When used as an adhesion promoter on existing bitumen sheaths, clean the membrane to remove any material on it that could compromise adhesion of the subsequent waterproofing coating. The membrane must be perfectly dry before continuing with its inspection, and in the event of any damage found, such as blistering, tearing or peeling, make the repair before applying **LicaPrimer 440**.

Preparing the mixture

Pre-measured two-component product. Add the whole of **component B** to the pot containing **component A**. Mix at low speed (max 300 rpm) for at least 3 minutes using a dedicated anchor mixer fitted onto a drill, until you obtain a perfectly smooth mixture, without any lumps and uniform in colour. IT is preferable to pour the mixture into an empty pot to mix it slowly for another minute. Avoid making partial mixes at all costs.

Application

Apply **LicaPrimer 440** by brush, roller, or airless spraying using a quantity of 200 g/m² for 90 µm in thickness, avoiding dripping and product build-up which could compromise the success of the job. For applications with airless spraying, use nozzles measuring 0.015 - 0.021 inches at a pressure of at least 180 bar. Immediately after application, we recommend you level out the surface using an air bubble removal roller. Any coating must be applied over it after at least 24 hours (at +22 °C and 50% R.H.) and no more than 12 days after laying. **LicaPrimer 440** is dry to touch after 9 hours. Do not apply **LicaPrimer 440** in extreme conditions, such as: substrates exposed to the midday sun or that are iced-over. 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	Pale grey
Mixing ratio	4 (A) : 1 (B)
Pot life 20 °C and 50% R.H. EN ISO 9514	4 hours
Theoretical consumption	200 g/m ²
Theoretical thickness	90 µm
Dry to touch at 20 °C and 50% R.H.	9 hours
Paint over time 20 °C and 50 % R.H.	Minimum 24 hours Maximum 12 days
Completely hard	10 days
Storage	12 months in a dry, protected place in sealed packs, at 20 °C, 50% R.H.
Packaging	10 kg (A) + 2.5 kg (B) drums: 12.5 kg in total

PERFORMANCE

Characteristic	Test Method	Performance
Density	EN ISO 2811-1	1.40 ± 0.05 kg/l
Viscosity at 20 °C	EN ISO 2431 (cup ø6)	60 ± 12 s
Non-volatile substances	EN ISO 3251	85 ± 5%
Adhesion strength	EN ISO 13892-8	>3MPa
Shock resistance	EN ISO 6272	4 N·m

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.
- The product can be stored for 12 months, when stored correctly in its original pack, kept in a protected dry place at a temperature of between +5 °C and + 35 °C.
- Monitor the product curing suitably for at least the first 24 hours after laying, protect against direct sunlight, strong wind and heavy rain.

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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