

## Top Layer 100 A+B

Modified two-component, aliphatic polyurethane, coating, resistant to wear and ultra-violet rays, with a high degree of elasticity

**Top Layer 100 A+B** is a two-component solvent-based aliphatic polyurethane resin coating, ideal as a protective and coloured finishing layer for **licata.waterproofing** membranes and the most commonly used cement-based substrates in building. Resulting from research by **Licata S.p.A.** labs, **Top Layer 100 A+B** has excellent elasticity, resistance to salt and fresh water, detergents, diluted acids and active chlorine (max 0.5 % in water). **Top Layer 100 A+B** is easy to work and can be applied with a brush, roller or airless sprayer with 0.019-0.021 inch nozzles at a pressure of 120 bar. Its special formulation, based on latest-generation resins, gives the product excellent mechanical-superficial resistance (impact and abrasion), even in extreme weather conditions. **Top Layer 100 A+B** preserves all its properties even at temperatures between -30 °C and +90 °C. The excellent resistance to UV rays together with perfect colour preservation are the added values to which the **Research & Development** team have dedicated specific studies.



### MAIN FIELDS OF USE

Due to its characteristics of elasticity, mechanical strength, chemical and surface resistance and resistance to UV rays, **Top Layer 100 A+B** is ideal as a protective layer and coloured finish for:

- Polyurethane waterproof membranes
- Cement-based substrates in general.

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

### CHARACTERISTICS

- UV resistant
- Resistant to fresh and salt water, and detergents
- Resistant to diluted acids
- Active chlorine (maximum 0.5 % in water)
- Resistance in marine and industrial atmospheres
- High binding power
- High mechanical and superficial strength
- Working temperature from -30 °C to +90 °C in air
- Application with brush, roller and airless sprayer



## 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. Metal substrates to be coated must be cleaned, free from scale, rust, oils or other pollutants which could affect the adhesion of the product and sandblasted, where possible, according to SSPC-SP10 to Sa2 1/2 standard. If sandblasting cannot be done, clean mechanically according to the standards. Then, apply the primer, **Licaprimers 440 A+B**.

### Primer

On cementitious substrates with no vapour tension, an undercoat of about 50-75 g/m<sup>2</sup> of **Epoxy Floor 500 W** must be applied. If the substrate is damp or vapour pressure is present, treat it with about 500-1000 g/m<sup>2</sup> of **Epoxy Cem TX A+B+C**.

### Preparation of the product

Pre-dosed, two-component product. Add all of **component B** to the container of **component A**. Mix at low speed (max 300 rpm) for at least 3 minutes using a drill mixer until a perfectly even, lump-free mixture is obtained with a uniform colour. IT is advisable to transfer the mixture into an empty container and slowly remix it for another minute. In any case, avoid partial mixtures.

### Application

Apply **Top Layer 100 A+B** with a brush, roller or airless sprayer in quantities of 150 g/m<sup>2</sup> per 70 µm of thickness, avoiding drips and product build-up which could affect the successful outcome of the application. For airless sprayer applications, use 0.019-0.021-inch nozzles at a pressure of at least 120 bar. The product is dry to the touch after 2 hours. A second coat can be applied after at least 12 hours (at 22 °C and 50% R.H.) following its application. Do not apply **Top Layer 100 A+B** in extreme conditions, such as substrates exposed to full sun or freezing temperatures. Make sure that the ambient temperature, that of the substrate and product during application, is between +5 °C and +35 °C.

## PRODUCT INFORMATION

Appearance	Fluid liquid - RAL colour chart
Mixing ratio (in volume)	1 (A): 0.3 (B)
Pot life at 20 °C and 50% R.H. EN ISO 9514	4 hours
Theoretical consumption	150 g/m <sup>2</sup>
Theoretical thickness	70 µm
Dry to the touch at 20 °C and 50% R.H.	2 hours
Subsequent coats at 20°C and 50% R.H.	12 hours
Deep hardening at 20 °C and 50 % R.H.	48 hours
Full hardening at 20 °C and 50% R.H.	10 days
Storage	12 months in dry, protected place in unopened containers, at 20°C, 50% R.H.
Packaging	10 kg drums (A) + 3 kg drums (B) =13 kg total

## PERFORMANCE

Characteristic	Test method	Performance
Density	EN ISO 2811-1	1.19 ± 0.05 kg/L
Viscosity at 20 °C	EN ISO 2431 (torque ø6)	75 ± 12 s
Non-volatile substances	EN ISO 3251	70 ± 5% in weight 60 ± 5% in volume

## WARNINGS

- Product for professional use.
- Chemical material: use PPE indicated by current legislation; protect eyes and skin during application.
- After use, clean tools while the product is still fresh.
- The product keeps for 12 months if stored correctly in the original packaging, place in a protected and dry place at a temperature between +5 °C and + 35 °C.
- Monitor the product's curing period for at least 24 hours after applying, protect from direct sunlight, strong wind and heavy rain.

## SAFETY

Please consult the safety data sheet for information about product disposal, storage and usage.

## NOTES

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and

questions you may have about the use and application of **Licata SpA** products.

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