

Epoxy Floor W 500 A+B

Two-component water-based multi-purpose epoxy resin, odour free and non-toxic

Epoxy Floor W 500 A+B is a two-component, solvent-free, water-based epoxy resin that is odour free and non-toxic. Ideal for closed environments. Good compatibility with damp substrates, improving the mechanical characteristics of durability and resistance to abrasion. It can be used as a primer on bituminous substrates and it also improves the resistance of the treated substrates to oils and fuels

Easy to work, it can be applied both with a brush and roller, as well as an airless spray. **Epoxy Floor W 500 A+B** complies with the requirements of **UNI EN 1504-2** for coating, product for protection against the risk of ingress 1.3, moisture control 2.2., increase in resistivity 8.2.



MAIN FIELDS OF USE

Epoxy Floor W 500 A+B is ideal as a protective layer and clear finish for:

- Dust-proofing for cement floors.
- Consolidator for cement and porous concrete surfaces, for mortars with loose masonry.
- Primer for epoxy and polyurethane floors.
- Primer for bitumen surfaces to encourage the binding of elastomeric products.
- Adhesive for repairing construction joints and screeds.
- Anti-absorbent and binding consolidator in place of wetting before the application of mortars or resins.

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

CHARACTERISTICS

- Odour-free, non-toxic two-component product, ideal for closed environments.
- Good compatibility with damp substrates.
- Excellent, mechanical, hardness and abrasion resistance characteristics.
- For use as primer.
- Good resistance to oils and fuels.
- Application range from +10 °C to + 45 °C.
- Application with brush, roller and airless spray.



APPLICATION METHOD

Preparation of substrate

Mechanically remove any flaking or easily detached parts. Thoroughly clean the application area so that it is free of dust, residue from surface treatments, such as detergents, oily substances, mineral or organic grease, wax, traces of chalk 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.

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. The product must be applied at a temperature between + 10 °C and + 45 °C.

Application

The product can be applied with traditional painting tools, such as a brush, roller, airless spray, in the following quantities and methods:

As a primer: apply 100-150 g/m² of product diluted 1:1 with water. Theoretical consumption of pure product 50-75 g/m². Allow between 50 minutes and 10 hours between coats depending on the ambient conditions.

As anti-dust coating: apply 100-150 g/m² of product diluted 1:1 with water. Theoretical consumption of pure product 50-75 g/m². After no more than 24 hours, apply a second coat of product diluted 1:0.5 with water with a consumption of 200-230 g/m². Theoretical consumption of pure product 135-150 g/m².

As joint repair: apply 200-300 g/m² of product diluted 1:0.2. Theoretical consumption of pure product 165-250 g/m². Allow from 60 minutes to 3 hours before applying again.

As a consolidator for mortars, masonry and crumbling surfaces: apply the product diluted 1:2 with water in the quantity required depending on the absorbency of the substrate.

Cleaning the tools: the work tools must be cleaned with water after use.

PRODUCT INFORMATION

Appearance	Clear liquid	-
Density	1.05 ± 0.05 kg/L	EN ISO 2811-1
Viscosity at 20 °C	6500 ± 1300 mPa·s	EN ISO 2555
Pot life at 22 °C	40 ± 5 minutes	EN ISO 9514
Mixture ratio (in weight and volume)	1:1	-
Theoretical consumption	50-200 g/m ²	-
Theoretical thickness	90-120 µm	-
Non-volatile substances		EN ISO 3251
In weight	47 %	
In volume	46 %	
Adhesion to damp concrete	No swelling, no cracking, no flaking > 4.0 MPa	EN 13578
Bond strength by direct tension	> 3.0 MPa	EN 1542
Resistance to abrasion	< 100 mg	EN ISO 5470-1 CS10 abrasive wheel, 1000 g, 1000 revolutions
Carbon dioxide permeability	sD > 50 m	EN 1062-6
Water-vapour permeability	sD < 5 m	EN ISO 7783-2
Capillary water absorption and liquid water permeability	w < 0.1 kg/m ² x h0.5	EN ISO 1062-3

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.
- Take care of 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.

Data sheet ref.: 110/17.1

