

Epoxy Floor W 700 A+B

Two-component, water-based, high-performance epoxy paint, specifically for protecting and decorating cement-based substrates.

Epoxy Floor W 700 A+B is a two-component, water-based, solvent-free epoxy resin paint, ideal as a protective layer and coloured finish for floors, warehouses, car parks, hospitals, schools, factories and the most common cement-based substrates used in building. Also suitable for offices, laboratories and showrooms. Its special formulation, based on latest-generation resins, gives the product excellent mechanical-superficial resistance (impact and abrasion). When fully hardened (approx. 10 days), it can resist the aggressive action of weak acids, hydrocarbons, oils, industrial detergents, high-pressure washes, etc.

Solvent-free and odourless, **Epoxy Floor W 700 A+B** is ideal for application indoors. The smooth and shiny appearance enhances all settings under artificial light, increasing brightness. Easy to work, it can be applied both with a brush and roller, as well as an airless spray. **Epoxy Floor W 700 A+B** retains all its properties even at temperatures between -20 °C and +90 °C and complies with the requirements of **UNI EN 13813** for synthetic screeds.



MAIN FIELDS OF USE

Epoxy Floor W 700 A+B is ideal as a protective layer and coloured finish for:

- Cement-based substrates in general.
- Floors, warehouses, car parks, hospitals, schools, factories.
- Offices, laboratories, showrooms.
- Poorly ventilated premises where the use of solvent-based products is not recommended.
- Food industry where floor and wall coatings are required for easy and efficient hygiene maintenance.

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

CHARACTERISTICS

- Resistance to diluted acids (diluted at 20%).
- Resistance to sodium hydroxide (diluted at 20%).
- Odour free.
- VOC Free.
- High binding power.
- High mechanical and superficial strength.
- Working temperature from -20 °C to + 90 °C in air.
- 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. In the presence of residual moisture or steam pressure, the substrates must be treated beforehand with approx. 500-1000 g/m² of **Epoxy Cem TX A+B+C** (three-component epoxy cementitious primer for damp substrates).

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. For application on absorbent substrates, dilute the first coat with 15% water and the subsequent coats with 10% water. The mixture should be poured into an empty container and slowly remixed for another minute. In any case, avoid partial mixtures

Application

The product can be applied with traditional painting tools, such as a brush, roller, airless spray.

Apply **Epoxy Floor W 700 A+B** in two coats, crossing over each other. Between the first and second coat, wait for a minimum of 6 to a maximum of 24 hours depending on the temperature and humidity. Avoid drips and product build-up which could affect the successful outcome of the work. The product will be dry to the touch after 4 hours, usable after 6 hours and foot traffic resistant after 24 hours. Do not apply **Epoxy Floor W 700 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
Mixing ratio (in volume)	30 (A): 100 (B)
Pot life at 20°C and 50% R.H. EN ISO 9514	40 - 50 minutes
Theoretical consumption per coat	155 - 220 g/m ²
Theoretical thickness per coat	70 - 100 µm
Dry to the touch at 20 °C and 50% R.H.	4 hours
Subsequent coats 20°C and 50% R.H.	6 - 24 hours
Foot traffic resistant 20 °C and 50% R.H.	24 - 36 hours
Full hardening 20 °C and 50% R.H.	10 days
Storage	12 months in dry, protected place in unopened container, at 20 °C and 50% R.H.
Packaging	3.9 kg drums (A) + 13 kg (B): 16.9 kg in total

PERFORMANCE

Characteristic	Test method	Performance
Density Converter diluted at 20% Colourant diluted at 10%	EN ISO 2811-1	1.14 ± 0.05 kg/L 1.05 ± 0.05 kg/L
Viscosity Converter diluted at 20% Colourant diluted at 10%	EN ISO 2555	2000 ± 500 mPa*s 7000 ± 1500 mPa*s
Non-volatile substances	EN ISO 3251	62.3% in weight 51.4% in volume
Adhesion to concrete	ASTM D4541	> 3 MPa
Resistance to abrasion	< 25 mg	UNI 8298-9 CS10 abrasive wheel, 1000 g, 1000 revolutions
Hardness (pencil test)	ISO 15184	5H
Electrical resistance	UNI 8298-10	Between 106 and 109 Ω
Chemical resistance	EN 13529	Sulphuric acid 20% Class I Sodium hydroxide 20% Class II

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.

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