

Epoxy Cem TX A+B+C

Solvent-free, waterproof, breathable, thixotropic three-component epoxy-cement coating, certified in accordance with UNI EN 1504-2, specifically designed for damp substrates

Epoxy Cem TX A+B+C is a thixotropic free three-component epoxy-cement system from solvents, capable of reticulating on damp surfaces. After only 48 hours (in ideal conditions of +20 °C and 60% R.H.) checking the complete drying with a hygrometer, provides a compact waterproof but at the same time permeable layer water vapor, suitable to receive the laying of parquet, PVC, linoleum, ceramics, epoxy coatings, polyurethane and cement-based leveling compounds.

Developed by research activities in **Licata SpA** labs, it stands out for its high adhesion strength on almost all the substrates used in construction, such as: concrete, natural stone, tiles, porcelain stoneware, marble, etc. **Epoxy Cem TX A+B+C** meets the requirements of the EN 1504-2 standard for coatings: a product for protection against ingress 1.3, moisture control 2.2, increasing resistivity 8.2. Its special formula, based on two-component epoxy resins, special hydraulic binders and latest-generation additives, lends the product outstanding mechanical strength and chemical resistance, even at temperatures of between -35 °C and +110 °C (in air) and + 65 °C (in water). Easy to work, **Epoxy Cem TX A+B+C** can be applied by brush, trowel, or airless spraying, both indoors and out. Supplemented with quartz sand additives (0.1mm or 0.5 mm), it can be used as skim coating mortar with superior mechanical performance levels.



MAIN AREAS OF APPLICATION

Epoxy Cem TX A+B+C is mainly intended for use as:

- Treatment and/or intermediate coat on damp substrates
- General primer for protection of concrete
- Anchoring primer for self-levelling cement coatings.
- Treatment of old floors with excessive residual damp.
- Levelling skim coatings.
- Direct damp-proof treatment.
- Waterproofing coating.
- Grouting joints.

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

CHARACTERISTICS

- Easy to apply, solvent-free.
- Versatile: treatment of damp surfaces: after only 48 hours (in ideal conditions of 20 °C and 60% R.H.) checking the complete drying with a hygrometer, it provides a layer compact waterproof but at the same time permeable to water vapor, suitable for laying parquet, PVC, linoleum, ceramics, epoxy, polyurethane coatings and cement-based leveling compounds. Its particular formulation allows the treatment of damp walls to obtain the anchoring and insulation of plasters and finishes.
 - Skim coating: supplemented with quartz sand additives (0.1 mm or 0.5 mm), it can be used as skim coating mortar with superior mechanical performance levels to level out and eliminate pitting on concrete.
 - Waterproofing: ideal for waterproofing piping and concrete vats intended for containing industrial water, sewage manifolds, etc.
- Excellent adhesion: developed by research activities in **Licata SpA** laboratories, it stands out for its high adhesion strength on almost all the substrates used in construction, such as: concrete, natural stone, tiles, porcelain stoneware, marble, etc.



- Superior mechanical performance levels, also in extreme weather: its special formula, based on two-component epoxy resins, special hydraulic binders and latest-generation additives, lends the product outstanding mechanical strength and chemical resistance, even at temperatures of between -35 °C and +110 °C (in air) and +65 °C (in water) and it is also applicable at temperatures of between +5 °C and +45 °C with R.H. 85 % maximum on the substrate.
- Specifically designed to protect concrete: **Epoxy Cem TX A+B+C** meets the requirements of the **1504-2** standard for coatings: product for protection against ingress **1.3**, moisture control **2.2**, increasing resistivity **8.2**.
- For both internal and external use.

APPLICATION METHOD

Preparing the substrate

Mechanically remove all flaking parts or easy to peel off. Clean the area of application thoroughly so that it is dry, free of dust residue from surface treatments such as: detergents, oily substances, mineral or organic greases, waxes, traces of gypsum and salt. The maximum humidity rate of the substrate must not be > 10%. Free water stagnating on the substrate or originating from previous washing operations or from weather phenomena must be removed or dried with appropriate equipment.

Preparing the mixture

Pre-measured three-component product.

1. Add the whole of **component B** to the pot containing **component A** and 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 smooth mixture, without any lumps and uniform in colour.
2. While mixing, add **component C** and mix until fully uniform.

Application

Epoxy Cem TX A+B+C can be applied, depending on the circumstances, by brush, trowel or airless spraying. In the latter case, use 45/60:1 piston pumps with adjustable tungsten carbide nozzles measuring 0.025-0.029 inches and pressures of around 250 bar using the product diluted with 5-10% water.

- *Even surfaces:*

In the case of even and normally damp surfaces, it is generally enough to apply one layer of product diluted with 8-10 % water with a consumption of 500 g/m².

- *Uneven surfaces:*

In the case of uneven surfaces, the consumption can be increased proportionally up to 1,500 g/m² decreasing the dilution water proportionally.

- *Very damp surfaces:*

Apply at least two coats of **Epoxy Cem TX A+B+C** with a consumption of 500 g/m² per coat and check the surface dryness. If it is not dry, apply another coat.

- *Masonry:*

After applying the vertical barrier with **Epoxy Cem TX A+B+C**, reconstruction of the renders must take place before applying a grout obtained by mixing LicaLatex with Portland R cement 1:2 in volume.

- *Bonding of uneven flooring:*

This must always take place with two-component epoxy-polyurethane or epoxy adhesives.

Make sure the temperature of the room, of the substrate, and of the product during application falls between +5 °C and +45 °C.

PRODUCT INFORMATION

Appearance Component A and B Component C	Neutral coloured liquid White powder	-
Density Neutral White	1,66 ± 0,05 kg/l 1,60 ± 0,05 kg/l	EN ISO 2811-1
Viscosity Neutral White	12000 ± 2000 mPa·s 15000 ± 3000 mPa·s	EN ISO 2555
Pot life at 22 °C	40 minutes	EN ISO 9514
Dry to touch Insensitive to rain Completely hard at 22 °C, 50 % R.H.	40 minutes 9 hours 15 days	-
Theoretical consumption	500 g/m ²	-
Theoretical thickness	200 µm	-
Packaging: Component A Component B Component C	16 kg in total: 6 kg PP (polypropylene) bucket 1.86 kg PP bottle 8.14 kg PP bag	-
Storage	12 months, if stored in the original, unopened container	

PERFORMANCE

Characteristic	Performance	Test Method
Direct traction adherence	> 3.0 MPa	EN 1542
Resistance to reverse hydrostatic pressure 250 kPa	No passage of water	UNI 8298-8
Compatibility with wet concrete	> 3.5 MPa	EN 13578
Carbon dioxide permeability	sD > 50 m	EN 1062-6
Permeability to water vapour	sD > 5 m	EN ISO 7783-2
Capillary absorption and water permeability	w < 0,1 kg/m ² x h ^{0.5}	EN 1062-3

WARNINGS

- Professional-grade product.
- Protect your eyes and skin during application.
- After use, clean tools with a suitable solvent while the mixture is still fresh.
- The room temperature and degree of humidity affect the workability, grip and drying times.
- Monitor the product curing suitably for at least the first 24 hours after laying, protect against direct sunlight, strong wind and heavy rain.
- No treatment with EpoxyCem TX must be covered over before 48 hours in ideal conditions (20°C, 60 % R.H.) or in any case before demonstrating it is completely dry - check with a hygrometer.
- For worsening substrate and environmental humidity conditions, we recommend waiting times of up to 6 days and the application of two or more layers of the product until completely dry values are achieved before all further finishing with coatings.

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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