Ercole®

CEMENTITIOUS OVERLAY FOR RESTORATION AND RESURFACING

CE 0094

FOR PROFESSIONAL USE ONLY - REVISION DATE: JUNE 2025

Ercole® is a one-component polymer-Portland-cement mortar (PCC), ready to use, and it is designed for use at low thickness on concrete, asphalt, plaster, wood, metal and other surfaces. It is a special and versatile product for any purpose of restoration and resurfacing.
Ercole® applied on damaged or deteriorated concrete, avoids demolition.
Ercole® contains a selection of special additives that ensure extremely high adhesion to various substrates.
Ercole® is successful in all types of climate and it resists to freeze-thaw cycles and de-icing salts.

Properties

Ercole® is suitable for restoration and resurfacing of concrete.

- Is ready to be mix with water.
- Has an extraordinary resistance to cycles of freezing and thawing, and to attack by chlorides, sulphates and thawing salts.
- Is used for interior and exterior applications.
- Is easy to apply.
- Can be used to recover concrete.
- Is resistant to the abrasion.
- Is non-toxic and environmentally friendly.
- Is an excellent substrate for following applications.
- Is applied from 1 to 3 mm thickness.
- Is weather resistant.
- Can be used on footpaths, driveways and roads.

Uses

- Floor levelling and anti slip surfaces.
- Patching, repairing and restoring concrete.
- Concrete restoring in vertical and horizontal line.
- Repairing cracks
- Reduction of the vapour tension through the raft foundations
- Pedestrian surfaces; platforms and loading ramps
- Parks, garages, entrances, storehouses and sheds
- Skateboard track, bridges, pathments, roads and highways
- Landing strips, brickwork, decorative concrete
- Masonry and decorative concrete (coloured or stamped)

Application

The low thickness cementitious overlays need mild temperature and - possibly - uniform sunlight in order to complete the curing. Ercole® must be applied only when the air temperature is above 10 °C and it should not be applied if rainfall is forecasted within 24 hours.

Ercole® is applied by using a squeegee, an american trowel, a spatula or with other similar systems.

Surface preparation:

The surface must be sound and intact. Before applying the product, remove existing sealers or overlays in order to ensure the best adhesion. Make sure there is no rising damp. Repair cracks and fissures. Prior treatment with Evercrete Pavishield® or Evercrete Vetrofluid® is recommended on concrete substrate.
For more information, contact the Ecobeton technical service.

Mixing:

Ercole® is ready to use, just by adding clean water and mixing with a mixing drill at low speed avoiding air bubbles.

25 kg of Ercole® should be mixed with 4 to 7 L of water, depending on the desired consistency, the type of application and the existing substrate.

A fluid mixture (5,5 - 7 L of water per 25 kg of product) is the most common application for 1 to 3 mm thickness overlays applied with squeegee or by american trowel.

A dry mixture (4 - 5 L of water per 25 kg of product) is used for vertical and ceiling restorations to achieve a stucco-like consistency.

For repairs over 3 mm, sand and aggregates can be added up to 1/3 (by weight) of Ercole® mixture.

Ercole® is available in white or grey, but any colour may be obtained by adding Ecobeton cementitious dyes into the mixture.

Wait 3 minutes before applying.

Application:

The surface must be wet before applying. Low thickness floor overlays required a fluid mixture. The product is applied in two coats with an american trowel or a squeegee. Wait the first coat to be dry (usually 24 h) before applying the next one.

Low thickness coatings can be sanded between each coat and after the final layer, using a low speed sanding machine with abrasive disc (grit 80-120). The final surface should be uniform in colour and texture.

Floor protection:

We recommend the use one of Ecobeton protective products to prevent water, oil and grease absorption.

Other applications:

Ecobeton technical service is available to answer any question you may have.

Email: europe@ecobeton.it

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Coverage rate

The coverage rate may vary. Here there are only approximations. The real coverage rate depends on the conditions of the support and on the porosity of the surface.

Coverage rate per package	15 m^2 in two coats on smooth surface (ca. 1,5 kg/m^2)
Curing	Pedestrian traffic is allowed after 72 hours in normal moisture and temperature condition. Complete curing requires 28 days
Storage	6 months if stored in a dry place
Packaging	25 kg bucket

Warnings

Ercole® must be applied only when the surface temperature is above 5°C and less than 35°C and the air temperature between 10°C and 35°C. On external surfaces, do not apply when rain is expected within 24 hours following of application. Do not expose the material to frost.

Read the Material Safety Data Sheet available at www.ecobeton.com.

Note:
The information contained in this sheet is accurate to the best of our current knowledge. The products are of the highest quality and standard with regard to production tolerances. As it is impossible to carry out any controls on the application of the product, no express or implicit guarantee is provided as regards the final result and no responsibility is accepted directly or indirectly by the use of the products. Users are encouraged to carry out tests before application.

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DOP n° 130107DOP-1504-3

EN 1504-3
Ercole®
Concrete repair product for structural repair PCC mortar

EN 12190	Compression resistance: > 25 MPa
EN 1015-17	Content of chloride ions: < 0,05%
EN 1542	Adherence: ≥1,5 MPa
EN 13412	Elastic modulus: ≥ 15 GPa
EN 13295	Carbonation resistance: passed
EN 13687-1	Thermal compatibility (freeze-thaw): ≥ 1,5 MPa
EN 13036-4	Slipping resistance: Class II
EN 13057	Capillary absorption: $w \leq 0,5\ kg/m^2 \times h^{0,5}$
	Fire resistance: Euroclass A2 - fl
	Dangerous substances: comply with 5.4

The above technical date has been obtained with a dosage of 3,5 litre of water per bucket.
Declaration of Performance (DoP) available on the website www.ecobeton.com.

For more details visit website:
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