CEMENTITIOUS LEVELLING COAT

Unicoat

Single-component powder · Mix with water

Cement-based levelling coat for smoothing and preparing vertical and horizontal surfaces before the application of resins and microcements. The formulation described in the Italian source contains freeze-dried polyurethane polymer, Portland cement and quartz aggregates.

Intended uses

- Smoothing screeds and uneven substrates before resin and microcement systems.
- Preparing heterogeneous substrates and suitably treated ceramic surfaces.
- Correcting falls and vertical surfaces.
- Exterior use only under the conditions and with the protection specified for the system.

Product data

Property	Value / instruction
Appearance / colour	White powder
Composition	Freeze-dried polyurethane polymer, Portland cement 525 and quartz aggregates
Particle size	0.3-0.9 mm
Residue (UNI EN ISO 3233-1:2020)	100%
Density (UNI EN ISO 2811-1:2016)	Approximately 1.6 kg/L
pH	7-8
Initial adhesion (EN 1015-12)	> 2.1 N/mm²
Compressive strength at 28 days	> 18 N/mm²
Flexural strength at 28 days (EN 1015-11)	> 5.4 N/mm²
VOC	< 1 g/L, ready-to-use product
Shelf life	12 months from the manufacturing date
Current pack size	15 kg bucket

Product properties and thickness

The original source also states that there is “no thickness limit”, which conflicts with its explicit 10 mm limit. This edition retains a maximum of 10 mm, to be checked against the production specification.

- High hardness, good workability and fast drying.
- Trowel application on vertical and horizontal surfaces.
- Powder to be mixed with water; do not add solvents.
- Can be used with reinforcing mesh in systems that require it.
- Declared maximum levelling thickness: 10 mm.

Reaction-to-fire classification

The original source states “Euroclass A0 (UNI 13501-1)”. This designation must be checked against the relevant classification report before it is used as an official class. It is not reproduced as a certification in this edition.

Application parameters

Parameter	Value / instruction
Application tool	Steel trowel
Mixing water	40% by weight
Indicative consumption	2 kg/m²; the original source does not specify the thickness
Working life of the mix	45 minutes at 20 °C
Dust dry, 1 mm thickness	3 hours at 20 °C
Walk-on time, 1 mm thickness	4 hours at 20 °C
Recoating	4 hours at 20 °C
Tool cleaning	Water
Substrate temperature	+5 °C to +30 °C
Maximum substrate moisture	2%, as stated in the original
Relative air humidity	75%, as stated in the original; check the dew point

Prepare the substrate

The substrate must be sound, stable, dry, clean and free from loose material. Remove old paints and incompatible coatings. The data sheet specifies a minimum pull-off strength of 1.5 N/mm². Carry out a preliminary test if in doubt.

Mixing

Pour the specified quantity of water into a clean container. Gradually add Unicoat while stirring and mix for approximately 3 minutes with an electric mixer at low speed, 300-400 rpm, using a suitable paddle. Do not mix by hand. Avoid entraining air.

Application

Before application, check substrate moisture, relative air humidity and the dew point. Apply Unicoat evenly with a steel trowel. On heterogeneous substrates, the original data sheet specifies two passes with an embedded 160 g/m² reinforcing mesh.

Limitations and precautions

- Do not apply to dusty or unstable substrates or surfaces affected by rising damp.
- Protect from moisture and condensation for at least 24 hours.
- Do not apply to surfaces with standing water.
- Do not cover expansion joints; provide the appropriate construction detail.
- At high temperatures, assess substrate conditions before application and do not leave standing water.
- If rain falls between coats, wait until the substrate is dry and check conditions before proceeding.
- Avoid combustion heaters that produce water vapour and CO_2.

Production-specification clarifications

The original source contained residual references to other products, “Rasante G” and “RS900G”, which have been removed from the Italian edition. It also gives contradictory instructions concerning bituminous membranes: one passage describes their preparation and another prohibits their use. Application to bituminous membranes is therefore not authorised by this edition pending technical confirmation.

Document reference

English translation of the Italian technical data sheet currently published at Decoriamonoi.it. Italian source: Published Italian edition. English edition: 01 / 18 November 2026. The technical values, stated test scope and application limitations of the Italian source are retained.

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