

Epoxol[®] CM

Three-component, self-leveling, epoxy-cementitious system

Description **Epoxol[®] CM** is a three-component, epoxy-cementitious system, used for the creation of self-leveling floor coatings of 1-3mm thickness.
Classified as a CT-C30-F7-A3-B2.0 screed material according to EN 13813

Fields of application

- Leveling, smoothing and repairing of floors, before they are coated by resinous systems (epoxy, polyurethane or polyaspartic) or prior to the application of ceramic tiles, wooden flooring, carpets, PVC flooring, etc.
- As an intermediate flooring layer on damp concrete surfaces (min. layer thickness: 2mm)
- As a final floor coating in areas of medium traffic, e.g. residential storage rooms, attics, etc.

Properties – Advantages

- High adhesion on concrete substrates
- Excellent self-leveling properties
- Water-vapour permeable
- High mechanical strength and resistance to liquids
- VOC-free - Contains no solvents
- Easy and affordable solution for smoothing, repairing and leveling existing floors, prior to the application of resinous flooring systems

Technical characteristics

Density (A+B+C, +20°C)	2,20 ± 0,05kg/L
Mixing ratio (by weight)	4,85A: 1,15B: 25C
Compressive strength (EN 13892-2)	>30MPa
Flexural strength (EN 13892-2)	>7MPa
Wear resistance – Böhme (EN 13892-3)	<3cm ³ /50cm ²
Adhesion strength (EN 13892-8)	>3MPa
Max. thickness per layer	3mm
Pot life (+25°C)	20 minutes
Drying time (+25°C)	12 hours

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Dry to recoat (+25°C)

24-48 hours (provided that surface moisture is within permissible limits)

Consumption

2,25kg/m² per mm thickness

Instructions for use

Surface Preparation: The surface must be stable, clean, dry (or slightly damp, without ponding water), protected from rising moisture and free from dust, oil, grease and loose materials. Even on new concrete surfaces, proper mechanical preparation of the substrate (grinding, shotblasting etc.) is essential. Any needed repairs should be executed by suitable repairing materials.

Priming: In the case of absorptive dry substrates, before applying **Epoxol[®] CM**, it is recommended to apply the water-based epoxy primer **Acqua Primer**, diluted 10% with water, by roller.

Mixing: Prior to mixing, component A shall be shaken and stirred thoroughly for app. 1 minute. Then component B is added into component A at the predetermined ratio and the two components are mixed for app. 1 minute with a low speed stirrer until the mixture is homogeneous. Component C is then gradually added into the mixture under continuous stirring with a low-speed stirrer. After app. 50-80% of the required quantity of C component has been added, clean water shall be also inserted in the mixture (app. 2-3% of A+B+C quantity, i.e. 0,7-1L of water for the whole 31kg set). Finally, the remaining required quantity of C component is added in the mixture under continuous stirring. The stirring may go on for a total of app. 3 minutes, until the mixture becomes homogeneous and free of lumps. The mixture should be then left for app. 3-5 minutes inside the container and re-mixed for a few seconds before being applied on the surface.

Application: **Epoxol[®] CM** is poured on the surface and applied by notched trowel or squeegee, in one layer of 1-3mm thickness. The still fresh mortar should be rolled over with a spiked roller, in order to achieve an even thickness and avoid the creation of air-bubbles, so that a smooth surface, without any imperfections, is created after the final curing. This process demands also the use of spiked shoes.

Special notes

- **Application conditions:** Relative atmosphere moisture: <80%, Ambient and substrate temperature: +8°C min. / +30°C max
- Low temperatures and high humidity during application prolong the drying time. while high temperatures reduce it. Conditions of high temperature and low humidity, which cause fast drying, should be avoided.
- Once applied, **Epoxol[®] CM** must be protected from moisture for at least 24 hours. The area must be well ventilated in order to avoid excess moisture during curing.

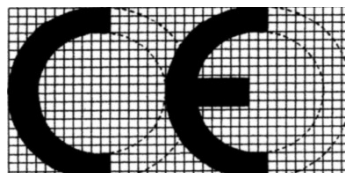
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Colour	Grey
Cleaning of tools & Stain removal	By water immediately after application. Hardened stains may only be removed by mechanical means
Packing	Sets (A+B+C) of 31kg
Storage stability	<i>Components A & B:</i> 2 years, stored in their original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight. <i>Component C:</i> 12 months, stored in their original sealed packing, in an absolutely dry place, protected from frost, humidity and exposure to sunlight

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Dop No. Epoxol[®] CM/4950-63

EPOXOL[®] CM

EN 13813 CT-C30-F7-A3-B2.0
Cementitious screed material for use internally in buildings

Essential characteristics	Performance
Release of corrosive substances	CT
Compressive Strength (EN 13892-02:2002)	Class C30
Flexural Strength (EN 13892-02:2002)	Class F7
Wear Resistance Böhme (EN 13892-03:2015)	Class A3
Bond strength (EN 13892-08:2003)	Class B2.0

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