

WATERPROOF, ELASTIC BI-COMPONENT CEMENT-BASED MEMBRANE

Characteristic product properties

- FLEX+ omnibind and 2C R omnibind for waterproofing floors and walls.
- Especially suitable for drinking water tanks, swimming pools, balconies and patios.
- For indoor and outdoor use.
- Fast hardening.

Applications

Suitable for waterproofing and protecting mineral floors that are not subject to heavy use, such as concrete or cement screeds. Also suitable for walls. This bi-component mortar (FLEX+ omnibind and 2C R omnibind) is slightly liquid when it is mixed and spread. It has a visibly smooth appearance after it hardens. As a result of water absorption, polymerisation and drying, it cures rapidly to form a layer, which protects the surface against infiltrations of water and seals in de-icing salts, sulphates and dissolved chlorides. The product can be used to create a surface under rigid finishes, such as cork, parquet or tiling, or in drinking water tanks and in other places, where the finish can only be placed under low mechanical stress. The product has a strong vapour sealing action and should not be considered as a vapour permeable system. However, the product is not gas-proof. 2C R omnibind lightly bridges and fills cracks. Glass fibre fabric can be embedded in the membrane in places that might be subject to extreme loads. Suitable for indoor and outdoor use.

Appropriate surfaces

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| <ul style="list-style-type: none"> ■ Asphalt ■ Brick ■ Existing tiles ■ Concrete ■ Concrete blocks ■ Cellular concrete ■ Cement coating | <ul style="list-style-type: none"> ■ Cement screed with underfloor heating ■ Electric underfloor heating ■ Plaster coating ■ Plasterboard ■ Cement/lime coating ■ Sand-limestone ■ O-BOARD |
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For specific details, please refer to our "General instructions for surfaces."

Other products/applications

- For places where less rapid hardening is required and on smaller surfaces: COAT omnibind.
- Liquid anhydrite screeds (calcium sulphate bound): SC / WD omnimat.

Preparing the surface

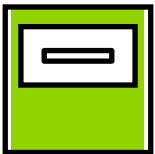
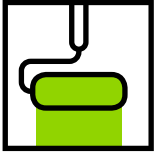
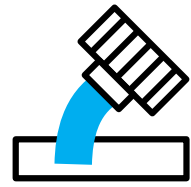
- Can only be applied to surfaces, which are dry, resistant and free of oil, grease, dirt and dust. Before starting work, remove any formwork oil, framework affected by rust, spatula strokes or layers that may have formed on or in the surface. It is very important that the surface is clean.
- For surfaces with higher moisture levels, on which sun rays or other energy sources may generate vapour pressure and porous surfaces that are liable to accumulate moisture: add ventilation grids or air vents every 20 m².
- Start by repairing any holes or cracks using 90GR omnimix, but do not use any products that contain plaster.
- Cover any absorbent or powdery surfaces with TP omnibind.
- Coat all smooth, sealed or compact surfaces with TP omnibind or ZR omnibind (rapid hardening textured primer)

Instructions for application

- Mix 2C R omnibind with FLEX+ omnibind according to the following proportions: 10 litres of FLEX+ omnibind per 25 kg of 2 C R omnibind. Combine thoroughly in the mixer for a minimum of 4 minutes until you obtain a mass that is homogenous and, very importantly, without lumps. Pour the liquid into the tub before adding the powder.
- If necessary, impregnate and/or repair the surface the previous day.
- Apply the mortar to the surface within 30 minutes and spread using an inox spatula. You can obtain a smooth and rigid surface by spraying it with water, if desired (using a watering can or hand brush). The mass is slightly liquid when it is mixed and spread, and can be applied with a maximum layer thickness of 3 mm.
- Continue the expansion joints in the surface of the layer that you wish to apply, which can later be sealed using mastic, tape or appropriate profiles.
- Do not mix with materials other than FLEX+ omnibind and do not add sand, cement or other components.

Damp places





- During application and curing, avoid humidity, draughts and direct sunlight.
- Do not apply at temperatures lower than 5° C (this applies both to the surface and the ambient temperature).

Required tools

- Measuring jug.
- Flat spatula.
- Small quantities: tub and mixer (setting: approx. 500 rpm).
- Large surfaces: mix in charges (clean regularly with hot water!).

Consumption

Minimum 1,275 kg per m² and per mm layer thickness for 2C R omnibind and 0.510 litre par m² and per mm layer thickness for FLEX+ omnibind, depending on the state of the surface requiring treatment.

Finishing

As it cures quickly and, if the conditions are favourable, you can begin to lay tiles 1 day later. In places that are likely to be subject to water pressure at an early stage, you are advised to wait 2 days. The waterproof membrane does not require pre-treatment, as tiles can be laid immediately using one of our tile adhesives, depending on the situation and quality of the tile. If the floor is to be covered with parquet, it will be necessary to ensure the minimum moisture level in the surface, according to the current requirements. For drinking water tanks, you will need to allow the full hardening period of 28 days and rinse it several times before using the tank.

Cleaning tools

Clean with clean and preferably hot water immediately after use.

Product composition

2C R omnibind is a foam-free dry mortar, modified with synthetic resins, based on high quality cements, charges and carefully selected additives. FLEX+ omnibind is a plasticiser-free liquid, which is also alkali-resistant, based on vinyl ethylene acetate and solvent-free.

Technical properties

2C R omnibind component:

- Supplied in the form of : powder
- Colour : grey
- Max. granulometry : 0.3 mm

FLEX+ omnibind component:

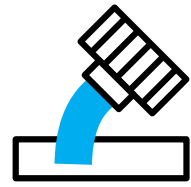
- Supplied in the form of : liquid, solvent-free
- Colour : white
- Application viscosity : approx. 1100 mPas (Brookfield RVT spindle 1; rpm 20)
- Solid matter content : 50 % m/m and pH value: approx. 4
- Min. temperature for film formation : 0° C
- Density : 1,06 kg/l
- Hardening : as a result of drying and polymerisation

Mortar properties

- Waiting time : none
- Application time : minimum 30 minutes
- Layer thickness : max. 3 mm in one application
- Application temperature : max. 70° C
- Hardening : as a result of drying, polymerisation and hydraulic curing
- Curing time : at 18-20° C, the floor will be walkable after three hours, provided care is taken to prevent any damage to the membrane. Lower temperatures will delay curing.

Membrane properties (28 hours dry to 23° C and 50 % H.R.)

- Density : 1.55 kg/l
- Waterproof : liquid-proof
- Elongation : 16
- Adhesion : 1.3 N/mm²
- Heat ageing : resistant
- Freeze/thaw conditioning : resistant



Packaging

- 2C R omnibind component: available in strong multilayer paper bags, which are sewn and secured using adhesive, with a net content of 25 kg.
- FLEX+ omnibind component: available in plastic jerrycans with a content of 10 litre.

Storage and shelf life

- Transport and store in a dry place away from frost. Avoid extreme temperatures and direct sunlight, especially before work commences.
- Keep packaging properly sealed.
- Maximum shelf life in original sealed packaging:
 - 2C R omnibind component : 6 months
 - FLEX+ omnibind component : 24 months
 - Combination of two components : 6 months

Health and Safety

2C R omnibind contains pure cement. More detailed information on safety when handling cement-based products is available on request.

This technical data is based on many years of practical experience and laboratory research. We cannot be held liable for the work produced in accordance with our systems since factors on which we cannot make an assessment or influence also determine the final result. We guarantee that this product is always supplied in a quality that remains the same. If you have any doubts, we recommend performing tests yourself. See www.omnicol.eu for the most recent version of this TDS.