

WATERPROOF ELASTIC DECOUPLING MEMBRANE FOR UNDER TILING

Characteristic product properties

- For use on floors subject to thermal fluctuations, fresh concrete, cement screeds or underfloor heating.
- Prevents cracking in the tiled surface, even if up to 2 mm wide cracks appear in the surface!
- Only a thin 0.87 mm layer is required.
- For use indoor or outdoors, in dry or damp places.

Applications

SC omnimat provides decoupling for underfloor heating, floors subject to thermal fluctuations, wood panels, fresh concrete and cement screeds. Decoupling prevents cracks from appearing in the tiled surface, even if up to 2 mm wide cracks appear in the surface! The membrane is flexible and heat permeable, so that it can also be used on surfaces where underfloor heating has already been fitted. Vapour pressure levelling for damp supports. The presence of polypropylene fabric makes it possible to neutralise any vapour pressure in damp supports. Tile coverings can therefore be applied without any problems, including on concrete load-bearing structures and even new or damp cement screeds. As it is less than 0.87 mm thick, the membrane can be used almost anywhere. It can be used in the construction of houses, functional buildings, commercial outlets, industrial kitchens and restaurants, in both dry and damp areas, to name just a few examples. Examples of uses: Indoor application: residential buildings, utility buildings, retail premises, industrial kitchens and restaurants in locations that are dry or damp. Outdoor application: terraces, balconies and gallery floors

Appropriate surfaces

- | | |
|--|--|
| ■ Anhydrite (ADG omnitem / white powder adhesive) | ■ Cork |
| ■ Asphalt | ■ Linoleum |
| ■ Existing tiles | ■ O-BOARD |
| ■ Concrete | ■ Parquet (sanded until the wood surface is exposed) |
| ■ Cement screed | ■ Polyester (glass fibre) |
| ■ Cement screed with (electric) underfloor heating | ■ Stone carpet |
| ■ Epoxy coating | ■ Paint |
| ■ Approved cement-based board | ■ Rigid quality vinyl carpet (PVC) |
| ■ Approved fibre-plaster board (white powder adhesive) | |
| ■ Wood (Pressed wood fibres/underlayment) | |

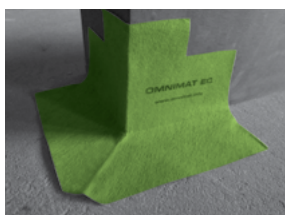
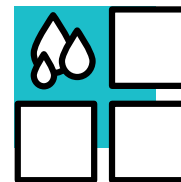
For specific details, please refer to our "General instructions for surfaces".

Preparing the surface

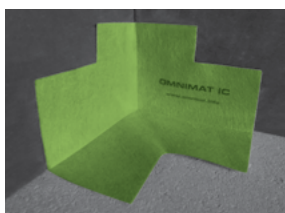
- The surface must be stable, resistant and free of oil, grease, dirt and dust.
- Take care with existing cracks in the surface, which must be examined closely before laying the tiles.
- Cleaning: this depends on the specific situation, but should include degreasing prior to laying "tile on tile", blasting and/or sanding for concrete applied using a helicopter or greasy surfaces.
- Care should be taken with self-levelling anhydrite screeds! Remove any layers of laitance (by sanding) and check the moisture content (max. 0.5 % . ADG omnitem 1.0 % in weight). Coat with AD omnibind primer.
- The surface must be even and, for indoor application, smooth surfaces where necessary, levelled using one of our omnimix levelling products (depending on the situation).
- Coat all "sandy" surfaces with TP omnibind.
- Coat existing tiling and sealed surfaces with ZR omnibind.
- Apply an expansion joint to all indoor and outdoor corners, to joints between walls and floor, to joints with columns, sealing profiles, building edging profiles and all existing expansion joints. For square edging profiles use a strip of backing foam/cylindrical foam and seal using SILICONE omnikit mastic.
- Underfloor heating should be switched off 48 hours in advance.

Waterproof and elastic decoupling membrane





EC omnimat



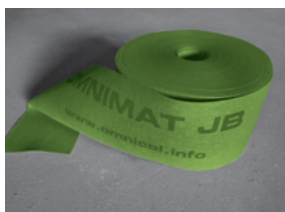
IC omnimat



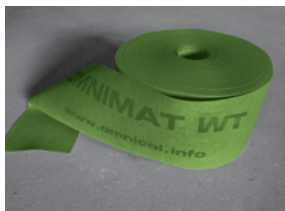
MF omnimat



MW omnimat



JB omnimat



WT omnimat

Installation instructions – interior

Placing mats:

Important: the upper side / visible side of the mats is the printed side.

- Prior to installation, adjust the SC omnimat to size using a pair of scissors or a knife.
 - Place the SC omnimat mat and accessories using one of our PL85 omnicec powder tiling adhesives (anhydrite: ADG omnicec/white powder adhesive) and a toothed 4 x 4 mm adhesive comb.
- Apply the SC omnimat mats and accessories during the adhesive's 'open' time, pressed tightly against one another. Leave a space of approximately 5 mm totally free for the closure profiles.
- We recommend smoothing the mats from the inside to the outside and removing excess adhesive, air bubbles and creases using a flat spatula to create a 100% flat contact surface. Do not use any sharp/cutting tools.
- When applying in damp areas, use the same installation instructions as for WD omnimat mats with the same accessories placed on SC omnimat, JB omnimat, EC omnimat, IC omnimat, MF omnimat, MW omnimat et WT omnimat mats, with the latter being applied using one of our PL85 omnicec tiling powder adhesives.
- With stainless steel shower drains in particular, use a roller to apply WT omnimat, a durably elastic self-adhesive water sealant.
 - Tiles can be laid immediately without the prior application of a primary. Lay the tiles using one of our PL85 omnicec tiling powder adhesives (white adhesive in the case of natural stone).
- Use a toothed 8 x 8 mm adhesive comb (depending on the size of the tile).
- After leaving for a minimum of one day, grout the tiles using a suitable grout for this application.

Installation instructions – exterior

Placing mats:

Important: the upper side / visible side of the mats is the printed side.

- Prior to installation, adjust the SC omnimat to size using a pair of scissors or a knife.
 - On a cement screed or on concrete with an incline of at least 1.5%, apply the SC omnimat mats and accessories using a PL85 PROF R omnicec powder tiling adhesive prepared with FLEX+ omnibind and applied using a 6 x 6 mm toothed comb, with JB omnimat, EC omnimat, IC omnimat, MF omnimat, MW omnimat and WT omnimat accessories placed on the SC omnimat mat.
- Ensure an additional watertight seal on the accessories using PL85 PROF R prepared with FLEX+ and applied with a flat spatula.
 - For the free edging area, use an appropriate closure profile. Leave a space of approximately 5 mm totally free for the closure profiles.
- Apply the SC omnimat mats and accessories during the adhesive's open time, pressed tightly against one another.
- We recommend smoothing the mats from the inside to the outside and removing excess adhesive, air bubbles and creases using a flat spatula to create a 100% flat contact surface. Do not use any sharp/cutting tools.
- With stainless steel shower drains in particular, use a roller to apply WT omnimat, a durably elastic self-adhesive water sealant.
 - While the adhesive is drying, protect the uncoupling mat using a tarp/colour/clear/transparent film.
 - Once the adhesive is dry, the tiles can be laid without the prior application of a primary.
- Lay the tiles using PL85 omnicec tiling powder adhesive (white adhesive in the case of natural stone) prepared with FLEX+ omnibind. Maximum size of tiles for the interior: 60 x 60 cm. The walls should also be fitted with upstands of a minimum height of 5 cm.
- Use a toothed 8 x 8 mm adhesive comb (depending on the size of the tile).
- After leaving for a minimum of one day, grout the tiles using a suitable grout for this application. For the remainder, the "general instructions for powder tiling adhesives" and the "general instructions for grouting mortars" apply.

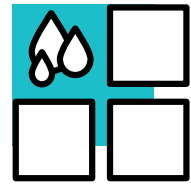
Consumption

The membrane should be laid without any covering.

The amount required is the same as for the floor surface or slightly more.

Product composition

Permanently elastic membrane made from 2 layers of polypropylene separated by a waterproof layer of polyethylene.



Technical properties

- Thickness : 0.87 mm
- Width : 1000 mm
- Length : 30 m
- Weight : 365 g/m²
- Adhesion in compliance with EN 1348 : > 0.2 N/mm² (above) < 0.1 N/mm² (below)
- Temperature resistance : -5° C to +90° C
- Min. UV resistance : 500 hours (DIN EN ISO 4892-3)
- Water pressure resistance : > 3.0 bar (DIN EN 1928 (Version B))
- Chemical resistance :
 - hydrochloric acid 3 %
 - sulphuric acid 35 %
 - citric acid 100 g/l
 - lactic acid 5 %
 - potassium hydroxide 20 %
 - sodium hypochlorite 0.3 g/l
 - sea water 20 g/l sea salt

Packaging

- Per roll : 1 x 10 m (10 m²) or 1 x 30 m (30 m²).
- Per palet : 50 x 10 m² rolls or 26 x 30 m² rolls

EC omnimat, IC omnimat, MF omnimat and MW omnimat

Accessories used for damp proofing under tiling

- EC omnimat
 - Preformed outer angle : Individual or in boxes with 25 pieces (100/220 mm x 60/90 mm)
- IC omnimat
 - Preformed inner angle profile : Individual or in boxes with 25 pieces (120/240 mm x 60/90 mm)
- MF omnimat
 - Sleeve for underfloor pipe ducts : Individual or in boxes with 10 pieces (425 x 425 mm)
- MW omnimat : sleeve for pipe ducts in walls : For 2 pieces or boxes 25 with pieces (120 x 120 mm)
- JB omnimat
 - Flexible tape for floor/wall and wall/wall joints : Per roll: 120 mm x 50 m¹
- WT omnimat
 - Self-adhesive waterproofing product with constant elasticity : Per roll: 100 mm x 5 m¹ in one box
 - : Per roll: 100 mm x 25 m¹ in one box

Storage and shelf life

- Keep and store in a dry place and away from light
- This ensures that the product has a virtually unlimited shelf life.

Health and safety

SC omnimat is low in emissions and is not subject to any risk (R) or safety (S) phrase.

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.