

DECOUPLING MEMBRANE UNDER TILING FOR NOISE REDUCTION SOUS LE CARRELAGE

Characteristic product properties

- Reduces noises in adjacent areas by up to 16 dB.
- Can also be used for decoupling surfaces that are subject to heavy use.
- Only 4 mm thick.
- For indoor use only, in dry and damp areas.

Applications

SR omnimat membrane can be used to reduce contact noise on tiled floors (1). Ideal for use in places where ceramic or natural stone tiles can cause noise pollution on lower floors (2) in buildings. The membrane is heat permeable and can therefore be used on surfaces where underfloor heating has already been fitted.

In addition, SR omnimat also decouples floors that are subject to heavy use, such as wood panels, fresh concrete and cement screeds, from underfloor heating. Decoupling prevents cracking in the tiled surface even if 2 mm wide cracks appear in the surface! As it is hardly 4 mm thick, the membrane can be used almost anywhere.

SR omnimat can only be used inside, in dry and damp areas.

Appropriate surfaces

- Cellular concrete, fibre-plaster board, approved cement-based board, wood (Multiplex), wood (pressed wood fibres/underlayment), concrete, cement screed, cement screed with underfloor heating, electric underfloor heating, anhydrite, asphalt, existing tiles, paint, polyester (glass fibre), rigid quality vinyl carpet (PVC), linoleum, epoxy coating, stone carpet, parquet (sanded until the wood surface is exposed).

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 (3).
- 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. 1 % in weight). Coat them AD omnibind primer.
- Take care with existing cracks in the surface, which must be examined closely before continuing work.
- The surface must be flat and fully levelled out, for example, using V17 R omnimix (depending on the situation).
- Ensure that edge strips can be placed on all edges/pillars/walls. They prevent noise leakage and must be extended so that they reach the bottom of the tiled surface. If the membrane is applied purely for the purpose of decoupling, it is not necessary to apply edge strips, unless anhydrite is present or if there is underfloor heating.
- Coat all "sandy" surfaces with TP omnibind.

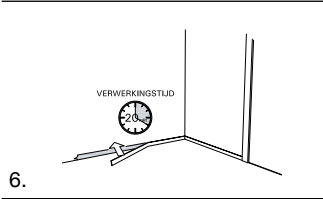
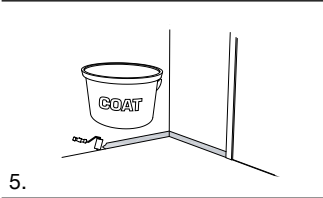
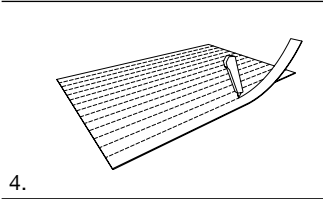
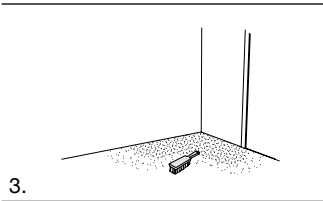
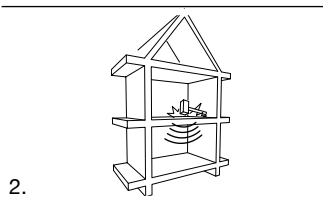
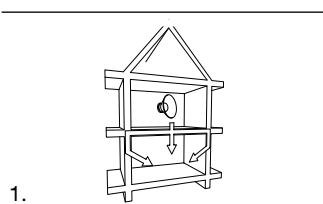
Instructions for application

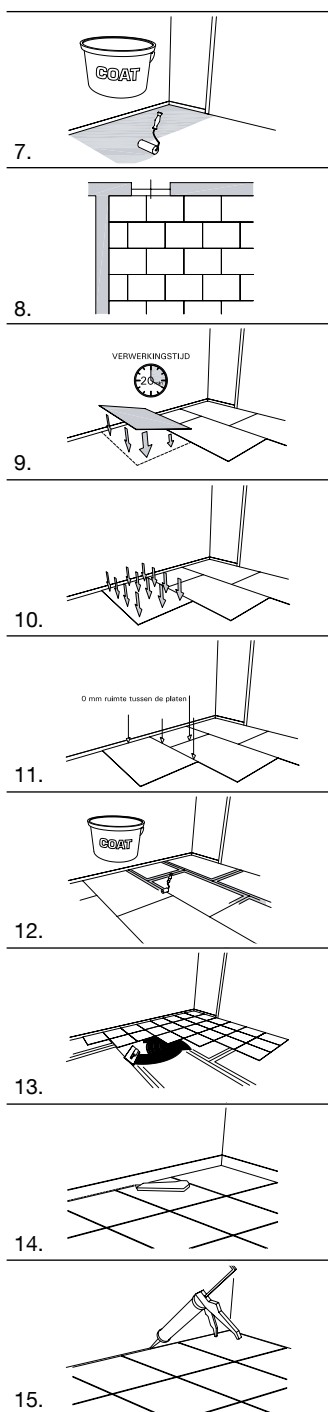
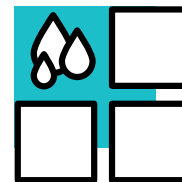
Laying perimeter strips:

- The edge strips should be cut off at the appropriate height from the SR omnimat, using a retractable utility knife (4). Off-cuts from the surface can often be used as strips.
- Cover the surface with a thin layer of COAT omnibind using a structured roller or brush. Alternatively, apply prepared PL85 omnicec as a liquid adhesive bed using a 6 x 6 x 6 mm adhesive comb (5).
- Apply edge strips to the adhesive during its open time and press evenly (6).

Laying mats:

- Cover the surface with a thin layer of COAT omnibind using a structured roller. Alternatively, apply prepared PL85 omnicec as a liquid adhesive bed (white for anhydrite) using a 6 x 6 x 6 mm adhesive comb (7).
- Apply the membranes to the adhesive during its open time using a half-brick and press evenly, making sure that you press the membranes firmly against each other and against any edge strips (8, 9, 10, 11).
- Cover all joints with COAT omnibind in order to prevent noise leakage (12).
- If using adhesive in damp areas, coat the entire surface of the membranes and edge strips with COAT omnibind.
- Lay the tiles using PL85 omnicec (white for natural stones) (13).
- After at least one day, grout using a suitable grouting mortar for this application.
- Cut off the edge strip above the tiling and finish using SILICONE omnikit and/or skirting tiles (14, 15).





Note: the upper/visible face of the membranes/edge strips is that with the least structured thin layer of fibres.

Otherwise, the “General instructions for powder tile adhesives” and “General instructions for grouting mortars” apply.

Consumption

The membrane should be laid without any covering. Off-cuts can often be used as strips. The consumption will be the same or slightly higher than on the floor surface, together with the surface of the edge strips.

Product composition

Polyurethane bonded mineral membrane.

Technical properties

■ Weight	: 5.1 kg/m ²
■ Contact noise insulation	
in compliance with DIN EN ISO 140-8	: $\Delta L_w = + 16$ dB
in compliance with NEN EN ISO 717-2	: $\Delta L_{in} = + 5$ dB
■ Adhesion in compliance with DIN 53292	: 0.34 N/mm ²
■ Thermal conductivity resistance	: 0.036 m ² K/W
■ Thermal conductivity	: 0,11 W/mK
■ Dynamic load	: max 0.5 kN/m ²
■ Static load	: max 3.0 kN/m ²
■ Tile quality if subjected to static load	
up to 2.0 kN/m ²	: breaking load > 1500 N (generally 8 mm thick)
up to 3.0 kN/m ²	: breaking load > 2500 N (generally 10 mm thick)
■ Applicable tile size	: minimum 20 x 20 cm, no long and narrow shape
■ Large format	: breaking load > 2500 N
■ Fire resistance class	: B2
■ Vapour diffusion permeability in compliance with DIN 52615	: 463 μ / 2.0 hours

Packaging

- 150 700 x 1000 x 4 mm membranes per pallet (105 m² per pallet) or boxes of 12 700 x 500 x 4 mm membranes (4.5 m² per 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

SR omnimat is low in emissions and 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.