

The decoupling composite sealing

Special elastomer tape fully fabric reinforced on both sides

For indoor and outdoor application

OFAEB

Characteristics

- › Optimal for critical substrates
- › Very high stretching and crack bridging properties
- › Fast further processing
- › Resistant to aging
- › Sealing strip with high decoupling effect
- › Impermeable to water and has water vapour retarding properties
- › The product is alkali-resistant according to the test specifications of AbP Sealing in connection with tiles and slabs and of ETAG 022
- › Complies with building material class B2 “normally inflammable” in accordance with DIN 4102-1



Fields of application

- › For decoupling, crack bridging and waterproof composite sealing in the floor area
- › Composite sealing in moisture-prone rooms and wet rooms underneath ceramic coverings and natural stone using the thin bed method (e.g. wet areas such as bathrooms, shower rooms, edge areas of swimming pools, saunas, steam baths, steam saunas, as well as for industrial uses in the foodstuffs industry, e.g. in breweries, dairies)
- › Flexible composite sealing under ceramic coverings and natural stone on balconies, terraces and arcades (not above used rooms) with a gradient $\geq 1.5\%$

Standards and tests

- › Complies with the water action categories W0-I, W1-I, W2-I and W3-I for tear class R1-I in accordance with DIN 18534
- › According to the moisture resistance classes A and C according to abP as well as A0 and B0 according to ZDB information sheet
- › General building inspection certificate - Panel-shaped seal in combination with tiles and board coverings for use as building sealant
- › Based on the inspections for awarding an AbP in accordance with PG-AIV-F and the resulting areas of application, the following stress categories can be assigned from the ÖNORM B 3407 – W1, W2, W3, W4, W5 and W6
- › EMICODE® EC 1 Plus - very low emission
- › French VOC-emission class A+

Technical properties

Total width [mm]	~ 1000
Length per roll [m]	~ 15
Total thickness [mm]	~ 1,8
Weight [g/m²]	~ 870
Temperature resistance from/to [°C]	- 30 / + 90
Tensile strength lengthwise according to DIN EN ISO 527-3 at test length of 15 mm [N]	~ 170
Tensile strength crosswise according to DIN EN ISO 527-3 at test length of 15 mm [N]	~ 190
Breaking expansion lengthwise (DIN EN ISO 527-3) [%]	~ 65

Breaking expansion crosswise (DIN EN ISO 527-3) [%]	~ 85
Adhesive tensile strength according to DIN EN 1348 [N/mm ²]	> 0,2
Water pressure resistance DIN EN 1928 [bar]	> 1,5
Shelf life at 23 °C/50 % RH [months]	24 ¹

1) from production

These data are not suitable for the issue of specifications. Please contact OTTO-CHEMIE before issuing specifications.

Important information

The waterproof bonding of the seams between the sealing strips with OTTOFLEX® sealing tape with the adhesive OTTOCOLL® M 500 or OTTOCOLL® M 595 achieves the water effect classes W0-I, W1-I, W2-I and W3-I according to DIN 18534 as well as the moisture stress categories A and C according to AbP and A0 and B0 according to the ZDB leaflet.

Use of the water effect class W3-I requires the agreement of a special design. We ask you to please consult with our technical department.

The following tile adhesives have been tested for composite sealing with OTTOFLEX® sealing and decoupling strip:

Ardex N 23 Microtec natural stone

Ardex X 78

Kiesel ServoStar 2000 Plus Flex

Mapei Mapestone 1

Mapei Ultralite S1

PCI Carraflex natural stone

PCI FT Flex

Sopro FKM Silver

Sopro tile cement No. 1

Application information

Preparation:

Substrates on which the OTTOFLEX® sealing and decoupling strip is to be placed are generally to be checked for flatness, stability and moisture. Surface components that impair adhesion must be removed.

We recommend priming to absorbent substrates with OTTOFLEX® Deep primer. For smooth surfaces (e.g. glazed tiles) we recommend using a levelling compound with highly flexible tile adhesive or a pretreatment with OTTOFLEX® Adhesive primer. The residual moisture in cement screeds (screed on insulating layer / also on floor heatings) should be max. 2,0 %, measured with calcium-carbid-gauge.

The residual moisture in anhydrite screeds (screed on insulating layer / in floor heatings 0,3 %) should be max. 0,5 %.

The residual moisture in wall areas (cement plaster or gypsum plaster) should be max. 1,0 %, measured with calcium-carbid-gauge. (Dark spots should not be visible upon visual inspection.)

The substrate must be clean, load-bearing and flat. The adhesive to be used must be suitable for the type of substrate and anchor itself in the sealing strip's fleece material. In accordance with EN 12004, thin-bed mortar with a minimum quality of C2 must be used. OTTOFLEX® decoupling strip must be cut to precise size.

Application:

1. OTTOFLEX® sealing and decoupling strip: Using a serrated trowel, the tile adhesive is to be applied 4 x 4 mm thick over the entire width of the surface of the substrate. Only as much tile adhesive as can be processed during the open time may be used. Press the sealing strip already cut to size fully into the adhesive. It is recommended that the smooth side of the serrated trowel or a smoothing spatula be used for pushing the strip in. Guide diagonally across the sealing strips. Air bubbles, air ducts and wrinkles must be avoided. Overlap the following strips with OTTOFLEX® sealing strip by at least 5 cm in the joint area. These overlapping areas must be left free of bubbles and wrinkles. Then use OTTOCOLL® M 500 or OTTOCOLL® M 595 to stick all overlaps and smooth the cross-over areas using the oozing material.
2. Corners and expansion joints: also stick OTTOFLEX® corners fully using OTTOCOLL® M 500 or OTTOCOLL® M 595 free of air bubbles and wrinkles and smooth the cross-over areas with the oozing material. Then stick the OTTOFLEX® Sealing Tape cut to size (plus overlapping zones 5 cm in size) in the middle across the expansion joints such that it is free of air bubbles and wrinkles using OTTOCOLL® M 500 or OTTOCOLL® M 595. Again, smooth the cross-over areas using the oozing.
3. Pipe ducts: For the OTTOFLEX® sleeves, apply beads of OTTOCOLL® M 500 or OTTOCOLL® M 595 around the pipe duct and press the sleeve into the bead of adhesive. Using a suitable tool, e.g. spatula, press onto the entire surface such that it is free of bubbles and wrinkles, and use oozing material to smooth the edge of the sleeve. Only after the OTTOFLEX® sealing and decoupling strip is sealed tightly with all overlaps, corners and connections can the covering be applied. No waiting time is required.
4. Tiling: When using thin-bed method, apply the tile adhesive directly to the sealing strip. Tiles are to be laid in a solid bed upon the strip.

Due to the many possible influences during and after application, the customer always has to carry out trials first.

Packaging

Dimension (length x width)	Order unit (OU)	Pieces per pallet	Order code
15 x 1 m	1 piece	18	OFAEB-100

Disposal

Product residues can be disposed of along with industrial waste as mixed plastics. Packaging materials (cardboard boxes, foils) are recyclable and hence should be recycled.

Brand information

EMICODE® is a registered trademark of GEV e. V. (Düsseldorf, Germany)

Warranty information

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