

# OTTOFLEX® Sealing strip

The time-saving composite sealing

Polyethylene sealing strip with double non-woven fabric

For indoor and outdoor application

OFAB



## Characteristics

- ▶ Impermeable to water and has water vapour retarding properties
- ▶ High practical stretching and crack bridging properties
- ▶ Resistant to ageing and decomposition
- ▶ Good resistance to aqueous solutions of salt, acids and alkaline solutions
- ▶ 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

- ▶ 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  $\geq 1.5\%$
- ▶ OTTOFLEX® Sealing strip is a crack-bridging, uncoupling, watertight, alternative sealing strip with non-woven fabric for safe fastening of the tile adhesive applied

## 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
- ▶ French VOC-emission class A+
- ▶ EMICODE® EC 1 Plus - very low emission

## Technical properties

Total width [mm]	~ 1000
Length per roll [m]	~ 30
Total thickness [mm]	~ 0,6
Weight [g/m <sup>2</sup> ]	~ 275
Temperature resistance from/to [°C]	- 30 / + 90
Bursting pressure [bar]	$\geq 3,0$

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SEALING & BONDING

Maximum tensile strength ISO 527-3 lengthwise at test length of 50 mm [N]	~ 370
Maximum tensile strength ISO 527-3 crosswise at test length of 50 mm [N]	~ 250
Breaking expansion lengthwise (DIN EN ISO 527-3) [%]	~ 90
Breaking expansion crosswise (DIN EN ISO 527-3) [%]	~ 120
Water pressure resistance DIN EN 1928 [bar]	> 1,5
UV-resistance according to DIN EN ISO 4892-3 [hours]	≥ 450
Water vapour diffusion equivalent air layer SD [m]	> 85
Adhesive tensile strength according to DIN EN 1348 [N/mm <sup>2</sup> ]	≥ 0,5
Colour	blue
Shelf life at 23 °C/50 % RH [months]	24 <sup>1</sup>

1) from production

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

## Important information

The scales (in metres) are meant purely as an orientation aid and do not constitute binding dimensions.

The waterproof bonding of the overlap areas using OTTOCOLL® M 500 or OTTOCOLL® M 595 attains the water action categories W0-I, W1-I, W2-I and W3-I in accordance with DIN 18534 and the moisture stress categories A and C in accordance with AbP and A0 and B0 according to the ZDB leaflet.

In areas with moisture stress category A0 according to ZDB (or W3 according to ÖNORM B 3407), the bond (overlapping by at least 5 cm) can also be made using a thin-bed mortar with a minimum class of C 2.

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 C2 adhesives are tested in the system for sealing in conjunction with the OTTOFLEX® Sealing strip - see abP:

Ardex N 23 Microtec natural stone  
 Ardex X 7 G plus  
 Ardex X 78  
 Botament M 21 Classic  
 Botament Multistone  
 Codex Power CX 1  
 Codex Stone SX 80  
 Kiesel Servo Star 2000 Plus Flex  
 Mapei Keraquick S1  
 Mapei Mapestone 1  
 Mapei Ultralite S1  
 PCI Carraflex natural stone  
 PCI flexible mortar  
 PCI flexible mortar S1  
 PCI FT Extra  
 PCI FT Flex  
 Sakret flexible tile cement FFK  
 Sakret Flexfliesenkleber schnell FFKs  
 Schönox Q6  
 Schomburg Monoflex  
 Schomburg Soloflex  
 Sopro tile cement No. 1  
 Sopro FKM Silver  
 Sopro FKM XL  
 weber.xerm 852  
 weber.xerm 861

## Application information

Preparation:

Substrates, which are laid with OTTOFLEX® Sealing strip should generally to be checked for evenness, stability and moisture. Adhesive repelling properties must be removed from the surface.

We recommend priming to absorbent substrates with OTTOFLEX® Deep primer. For smooth surfaces (e.g. glazed tiles) we recommended 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 comply with the requirements of the type of the substrate and must anchor itself in the fleece material of the sealing strip. In accordance with EN 12004, thin-bed mortar with a minimum quality of C2 must be used. OTTOFLEX Sealing Strip must be cut to precise size (allow for overlaps 5 cm in size).

#### Application:

1. OTTOFLEX® Sealing 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 OTTOFLEX® Sealing strips already cut to size fully into the adhesive. It is recommended that the smooth side of the serrated trowel or a smoothing trowel be used for pushing the strips in: guide diagonally across the sealing strips. Air bubbles, air ducts and wrinkles must be avoided. Overlap the following strips by at least 5 cm in the joint area: these overlapping areas must be left free of tile adhesive. Then use OTTOCOLL® M 500 or OTTOCOLL® M 595 to stick all overlaps – free of air bubbles and wrinkles – and smooth the cross-over areas using the oozing material.
2. Corners and expansion joints: also stick OTTOFLEX® Interior and exterior corner tapes 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 in the specified kink 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 material.
3. Pipe ducts: For the OTTOFLEX® Floor sealing sleeve or OTTOFLEX® Flexible sealing sleeve, apply beads of OTTOCOLL® M 500 or OTTOCOLL® M 595 around the pipe duct, put the sleeve over the pipe and press into the beads 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 strip is sealed tightly with all overlaps, corners and connections that the covering can be applied. No waiting time is required.
4. Tiling: When using thin-bed method, apply the tile adhesive directly to the OTTOFLEX® sealing strip. Tiles are to be laid in a solid bed upon the strip.

## Packaging

Dimension (length x width)	Order unit (OU)	Pieces per pallet	Order code
30 m x 1 m	1 piece	26	OFAB-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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