

OTTOFLEX

Sealing Strip

Technical Datasheet



Characteristics:

- Polyethylene sealing strip with double non-woven fabric
- **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

Important information:

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

The following C2 adhesives are tested in the system for sealing in conjunction with the OTTOFLEX Sealing Strip - see abP:
 Sopro tile cement No. 1

PCI flexible mortar S1
PCI FT Extra
Mapei Keraquick S1
Ardex X 7 G plus
Schönox Q6
Botament M 21 Classic
Codex Power CX 1

Technical properties:

Total width [mm]	~ 1000
Length per roll [m]	~ 30
Total thickness [mm]	~ 0,6
Weight [g/m ²]	~ 275
Temperature resistance from/to [°C]	- 30 / + 90
Bursting pressure [bar]	≥ 3,0
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 ²]	0,5
Colour	blue
Shelf life at 23 °C/50 % RH [months]	24 (1)

1) from date of manufacture

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

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 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 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. 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 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 sealing strip. Tiles are to be laid in a solid bed upon the strip.

Packaging: 1 roll per box

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.

Warranty information: All information in this publication is based on our current technical knowledge and experience. However, since conditions and methods of use and application of our products are beyond our control, we suggest that you test the product before final use. Information given in this technical data sheet and explanations of OTTO-CHEMIE in connection with this technical data sheet (e.g. service description, reference to DIN regulations etc.) is not to be seen as a warranty. Warranties require a separate written declaration of OTTO-CHEMIE to prove their validity. The characteristics stated in this data sheet define the characteristics of the article broadly and conclusively. Suggestions of use are not to be taken as confirmation of the appropriateness for the recommended intended use. We reserve the right to alter the product, adjusting it according to technical progress and new developments. We are at your disposal both for inquiries as well as specific application problems. If a governmental approval or clearance is necessary for the application of our products, the user is responsible for the obtainment of such. Our recommendations do not excuse the user from the obligation to take into consideration the possibility of infringement of third parties' rights and - if necessary - resolving it. For the rest our general terms and conditions apply, in particular regarding a possible liability for defects. You can find our general terms and conditions on our homepage: <http://www.otto-chemie.de/en/terms-and-conditions>