

OTTOFLEX

Protective Coating

Technical Datasheet



Characteristics:

- Synthetic resin dispersion based on styrene butadiene
- Sealing against humidity
- **Compatible with commercially available tile adhesives and solvent-free coatings**
- Compatible with OTTO silicone sealants
- Ready-to-use, easily applicable by rolling, painting or trowelling
- **Very short drying time of 2 to 3 hours**
- High crack bridging ability
- Free of plasticisers and solvents
- Store and transport frost-free
- 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
- Suitable for very various substrates, e. g. gypsum, gypsum plasterboards, gypsum fibre, (cellular-) concrete, masonry, stone, screed

Standards and tests:

- Complies with the water action categories W0-I, W1-I and W2-I for tear class R1-I in accordance with DIN 18534
- General building inspection certificate - Liquid seal in combination with tiles and board coverings for use as building sealant
- Conform to the moisture resistance classes A0 according to ZDB and A according to abP
- 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 and W4.
- GISCODE BSW10
- 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)

For sealing in combination with the OTTOFLEX Protective Coating, the following C2-adhesives are tested in the system - see abP:

Sopro tile cement No. 1
 PCI flexible mortar S1
 Ardex X 7 G plus
 PCI flexible mortar
 Sakret flexible tile cement FFK
 PCI FT Extra
 Mapei Keraquick S1
 Schönnox Q6
 Botament M 21 Classic
 Codex Power CX 1

OTTOFLEX Protective Coating is only authorised for wall surfaces with a high stress category by non-oppressive water on the interior (such as walls in public showers) in accordance with stress category A according to abP and in accordance with W2-I water action category according to DIN 18534!

OTTOFLEX Slurry Seal Coatings or OTTOFLEX Sealing Strip (in combination with OTTOCOLL® M

500) are authorised for floors in accordance with the stress category A according to abP and in accordance with the W2-I water action category according to DIN 18534. OTTOFLEX Protective Coating is suitable for composite sealing in the floor area for the water effect classes W0-I and W1-I according to DIN 18534 and for the stress classes W1, W2, W3 and W4 according to ÖNORM 3407.

Technical properties:

Processing temperature from/to [°C]	+ 5 / + 25
Minimum consumption for a total dry layer thickness of min. 0,5 mm [kg/m ²]	~ 1,2
Minimum consumption for a total dry layer thickness of min. 0,5 mm [l/m ²]	~ 0,8
Adequate wet layer thickness (min. 2 spreadings) [mm]	~ 0,7
Flash-off time after 1. painting at 23 °C/50 % RH [hours]	~ 1 (1)
Flash-off time after 2. painting at 23 °C/50 % RH [hours]	~ 1 - 2
Viscosity (Physika LC 10, 23 °C) [mPas]	~ 20000
Density at 23 °C according to ISO 1183-1 [g/cm ³]	~ 1,5
Solids content [%]	~ 73
Temperature resistance from/to [°C]	- 20 / + 70
Shelf life at 23 °C/50 % RH [months]	18 (2) (3)
Colour	blue, covering
Colour of the colour paste	red

- 1) Higher temperatures reduce the airing time, lower temperatures prolong it.
- 2) from date of manufacture
- 3) Frost-free storage

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

Pretreatment:

The substrate must be firm, load-bearing, absorbent and flat, as well as free of oil, grease, dust and other separating layers. Remove any residues by means of brushing it and suctioning it off.

The surface must not have unevenness, ridges or continuous cracks. Uneven surfaces have to be adjusted with an adequate tile adhesive either before or after the application.

The residual moisture must not exceed the following values:

Cement screed: 2 %

Anhydrite screed: 0,5 %

Anhydrite screed (heated): 0,3 %

Pretreat porous and highly porous mineral substrates, gypsum plaster boards and other gypsum based substrates with OTTOFLEX Primer and let dry for at least 2 hours.

Pretreat gypsum plasters and anhydrite screeds with OTTO Deep Primer.

The drying time depends on the temperature of the air and the substrate, the airflow, the air humidity and the absorptive power of the substrate. At +20 °C and a relative air humidity of 50 % the drying time is approximately 2 hours.

Gypsum plasters have to be rigid, dry, smoothed and single-layered at least 10 mm thick.

Moisture-prone substrates, e.g. construction materials containing gypsum and anhydrite floors are only suitable for the water action categories W0-I and W1-I.

Constructional sealing made of polyethylene, polypropylene and bituminous based materials are unsuitable substrates. For non-porous building substrates such as polyurethane, polyacrylates, epoxides etc. please contact our technical department.

Application information:

Stir OTTOFLEX Protective Coating well before use and apply using a roller (short-pile lambskin or foam roller). First of all the corners of the walls and the corners between the wall and the floor are sealed using OTTOFLEX Sealing Tape, whereby the sealing tape is placed in the fresh protective coating and the textile with the edge of the coating is generously painted over. Then, OTTOFLEX Protective Coating is applied in equal thickness to the wall and the floor. The second coat is applied after a drying period of at least one hour.

The sealing must be applied in at least two stages using different colours (contrast):

1. coat: OTTOFLEX Protective Coating (in the original colour)

2nd coat: OTTOFLEX Colour Paste is added to OTTOFLEX Protective Coating and stirred in to produce a homogenous mixture. The coloured protective coating is applied.

The application of a third layer is possible, yet not necessary. Standard commercial tile adhesives can be applied to the protective coating using the thin bed method after approx. 2-3 hours.

If only the floor needs sealing, the sealant must be drawn 5 cm up the wall and be covered with a skirting board.
 Wall seals must be at least 20 cm above the highest tap (e.g. shower head).
 Due to the many possible influences during and after application, the customer always has to carry out trials first.
 Please observe the recommended shelf life which is printed on the packaging.

Packaging:

	7 kg plastic pail *	12 kg plastic pail *	20 kg plastic pail *	90 kg plastic drum**
-	OFFF-45	OFFF-46	OFFF-35	OFFF-36
Packaging unit	1	1	1	1
Pieces per pallet	45	33	24	4

* Container with colour paste for the second coat included

** The necessary colour bag for the 90-kg drum must be ordered separately according to requirements.
 For colouring 20 kg of protective coating, we recommend 1 bag of coloured paste (10 g), i.e. approx. 5 bags for 90 kg.

Safety precautions:

Please observe the material safety data sheet.

Disposal:

Information about disposal: Please refer to the material safety data sheet.

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>