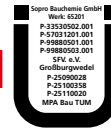
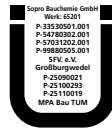




# Sopro FDF

## Flexible sealing compound

525 grey · 527 light grey



FDF 525

FDF 527



Highly elastic, ready-to-use, one-component liquid waterproof coating for waterproofing indoor spaces to DIN 18534 Part 3 (equivalent to DIBt Construction Products List and ZDB data sheet).

- Waterproof membrane for incorporation below tile finish
- Visual control through contrast colours (grey and light grey)
- Suitable for floor heating systems
- Crack-bridging
- For brush, roller, trowel and spray application
- Solvent-free
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> ("very-low-emission-plus") rating
- With national test certificates (abP)
- DGNB (German Sustainable Building Council): Top quality level 4, Line 9<sup>1)</sup>

### Use

Liquid waterproof membrane for waterproofing indoor spaces to DIN 18 534, suitable for W0-I "Low water action" and W1-I "Moderate water action" applications (floor/wall), and W2-I "High water action" applications (wall) (equivalent to Moisture Exposure Classes A and A0 to Construction Products List issued by DIBt (German Institute for Construction Technology) and ZDB (Federation of the German Construction Industry) data sheet). Suitable for installation of waterproof membranes below ceramic tile and natural stone coverings in showers, bathrooms, sanitary facilities etc.

Sopro DSF 523 one-component flexible sealing slurry, Sopro DSF 623 one-component flexible rapid-set sealing slurry, Sopro DSF 423 two-component flexible sealing slurry, Sopro TDS 823 two-component turbo sealing slurry or Sopro PU-FD surface sealant should be used for permanently underwater applications, e.g. in swimming pools. Sopro PU-FD surface sealant should be used for applications involving exposure to chemically aggressive waters or media.

### Suitable substrates

Cement, lime/cement and eminently hydraulic lime renders, masonry cement, gypsum plasterwork, gypsum plasterboard and gypsum fibreboard drywall panels, concrete, lightweight concrete, aerated concrete, flush-jointed masonry, grade V 100 GE 1 particleboard to DIN 68763, cement, mastic asphalt, magnesium oxychloride (magnesite) and calcium sulphate (anhydrite) screeds, existing ceramic coverings. Composite extruded polystyrene units; existing, firmly bonded adhesive residue from PVC flooring or carpeting.

Where used in conjunction with timber substrates, please contact our Technical Service team.

### Coat thickness / consumption rate

Coat thicknesses after 2-coat application to DIN standards:

Water action classes	Min. dry coat thickness	Min. wet coat thickness	Coverage
W0-I to W1-I (floor, wall)	0.5 mm	0.8 mm	1.2 kg/m <sup>2</sup>
W2-I (wall)	0.5 mm	0.8 mm	1.2 kg/m <sup>2</sup>

Under DIN 18534 Part 3, liquid waterproof membranes should be applied in at least two coats using contrast colours.

Stated consumption rates are minimum values. Separate, good-practice evening out of substrate, e.g. through application of a skim coat, is a prerequisite. Under DIN standards, an extra coat thickness of 25 % is required for wet coat thickness. In no place should applied material fail to achieve required dry coat thickness.

### Application temperature

Between +5 °C and +35 °C

<sup>1)</sup> Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).



### Drying time

Flash-off time after first coat: 1.5–2.5 hours  
Flash-off time after second coat: 3.0–5.0 hours

### Shelf life

Approx. 24 months in original unopened containers, protected from frost

### Packaging

Colour grey: 20 kg bucket, 15 kg bucket, 5 kg bucket, 3 kg bucket  
Colour light grey: 20 kg bucket, 15 kg bucket, 5 kg bucket, 3 kg bucket

### Substrate preparation

Substrate preparation should comply with DIN 18534 Part 3 (equivalent to DIN 18195 Part 5). Substrate should be dry, strong, crack-free, dimensionally stable and free from adhesion-impairing substances (e.g. dust, oil, wax, release agent, efflorescence, laitance, paint, lacquer and varnish residue).

Level out any irregularities using Sopro RAM 3 454 renovation and levelling mortar, Sopro RS 462 repair filler or Sopro AMT 468 levelling mortar with trass; for floors, use Sopro FS 15 550 floor-levelling compound.

Gypsum plasterwork should be single-coat, visually dry, and should not be felt-floated or smoothed.

Calcium sulphate (anhydrite) screeds should be ground and vacuum-cleaned. Max. moisture content 0.5% CM for unheated, 0.3% CM for heated screeds.

Concrete substrates should be min. 3 months old, cement screeds min. 28 days old and dry ( $\leq 2.0 - 2.5$  % CM). Screeds incorporating Sopro Rapidur® B1 are ready for tiling after only 24 hours, subject to achievement of moisture content  $\leq 4.0$ % CM. Cement screeds incorporating Sopro Rapidur® B5 are ready for tiling after 3 days, subject to achievement of moisture content  $\leq 2.0$ % CM.

Wood-based products should be dry and rigid with ventilated rear face. Prior to application, screeds incorporating heating elements should be heated up in accordance with procedures laid down by "Schnittstellenkoordination" (German building trades co-ordination committee, May 2011).

### Priming

**Sopro GD 749 primer:** Cement screeds, calcium sulphate (anhydrite and self-levelling anhydrite) screeds, board subfloors, paperless gypsum wall panels, gypsum plasterboard/joints and filler, gypsum fibreboard, gypsum plaster, high- or variable-suction (interior) aerated concrete, cement and lime/cement render, renders made from masonry cement, flush-jointed masonry

**Sopro HPS 673 bonding primer:** Smooth and closed-pore substrates, e.g. existing tile, terrazzo, natural and cast stone coverings, adhesive residue from PVC flooring or carpeting

Please observe technical product information for relevant Sopro primer!

### Application

Installation of waterproof membranes should comply with DIN 18534 Part 3 (equivalent to DIN 18195 Part 5).

Stir Sopro FDF prior to application. First seal angles between wall and floor surfaces using Sopro DB 438 sealing tape/Sopro DBF 638 pre-folded sealing tape and penetrations using Sopro DWF 089/DMW 090/DMB 091 sealing collars. Seal any floor drains/gullies using Sopro DMB 091 sealing collar for floors. Bond sealing tape or sealing collar with Sopro FDF and then fully overcoat with Sopro FDF. Sopro RMK 818 Racofix® universal adhesive, Sopro MKS 819 Racofix® universal adhesive S, Sopro TDS 823 two-component turbo sealing slurry, Sopro DSF 423 two-component flexible sealing slurry or Sopro PU-FD 570/571 surface sealant is recommended for waterproof bonding at laps between Sopro sealing tapes and with Sopro sealing tapes for internal/external angles.

Apply liquid waterproof coat to wall and floor surfaces in uniform thickness with selected tool, taking care to avoid pore formation. For critical substrates and heavy-duty applications, apply first waterproof coat with triangular-blade or sawtooth trowel and incorporate Sopro AR 562 scrim in fresh combed bed. Work waterproof coating to smooth finish using smoother.

Roll on second coat after first coat has fully dried (after 1.5–2.5 hours).

Under DIN 18534 Part 3, liquid waterproof membranes should be applied in at least two coats using contrast colours.

After waterproof coats have fully dried, ceramic tiling may be installed using e.g. Sopro's No.1 400 flexible tile adhesive or Sopro FKM XL 444 multi-purpose eXtraLight flexible tile adhesive, and natural stone coverings using e.g. Sopro's No.1 997 white rapid-set flexible tile adhesive.

**Note:** Sopro FDF is not suitable for waterproofing floors of walk-in showers. Use a flexible, cementitious Sopro sealing slurry or Sopro AEB 640 waterproofing and separating membrane for this purpose.

### Disposal

Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code) : 08 04 10

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

### Specified times

Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

### Tools

Lambswool roller, foam roller, sawtooth trowel, finishing trowel; wash tools with water immediately after use.

### Test certificates and test reports

#### SVF e.V. institute for wall/floor coverings, Großburgwedel:

– For standard and contrast colour: National test certificates (abP) for liquid waterproofing products used in conjunction with tiling and in combination with Sopro SC 808 flexible tile adhesive, Sopro's No.1 flexible tile adhesive, Sopro's No.1 white rapid-set flexible tile adhesive, Sopro MFK 446 flexible adhesive for marble tiles, Sopro GD 749 primer and other Sopro components.

#### Technische Universität München:

– Für Standard- und Kontrastfarbe: National test certificate (abP) for liquid waterproofing products applied in conjunction with tiling and in combination with Sopro FF 450 flexible tile adhesive, Sopro's No.1 rapid-set flexible tile adhesive, Sopro FKM XL 444 multi-purpose eXtraLight flexible tile adhesive, Sopro GD 749 primer and other Sopro components.  
– In conjunction with Sopro's No.1 400 flexible tile adhesive, meets enhanced requirements of Swedish SCTC test standard.

#### European technical approval:

– System test with other system components: European technical approval (ETA): ETA no. 13/0155 under ETAG 022 Part 1; Reaction to fire class: E/E<sub>fl</sub>.

#### EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> ("very-low-emission-plus") rating

Not classified as dangerous under Regulation (EC) No 1272/2008 (CLP). All standard precautions for the handling of construction materials/chemicals should be taken.

**Contains:** 1,2-benzisothiazol-3(2H)-one. Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

**Precautionary statements:** EUH210 Safety data sheet available on request. P102 Keep out of reach of children.

**German Water Hazard Class (WGK):** 1: slightly hazardous to water (self-assessment in accordance with VwVwS – German Administrative Regulations on the Classification of Substances Hazardous to Waters into Water Hazard Classes – of 17.05.1999)

**GISCODE (German hazardous substances classification):** D1 · Solvent-free dispersion-based floorlaying materials

### Safety precautions

### CE marking

<b>Sopro</b> Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com	
13 CPR-DE3/0525.1.eng Sopro FDF 525 ETA-13/0155 – ETAG 022 Part 1 Watertight covering kits for wet room floors and/or walls Liquid applied coverings with or without wearing surface	
Reaction to fire	Class E/E <sub>fl</sub>
Vapour permeability	s <sub>d</sub> = 72.0 m
Watertightness	watertight
Crack-bridging ability	0.75 mm
Bond strength	Ass. cat. 2: > 0.5 N/mm <sup>2</sup>
Scratching resistance	NPD
Joint-bridging ability	watertight
Watertightness around penetrations	watertight
Resistance to temperature	Ass. cat. 2:
Bond strength – crack-bridging ability	> 0.5 N/mm <sup>2</sup> – 0.75 mm
Resistance to water, bond strength	Ass. cat. 2: > 0.5 N/mm <sup>2</sup>
Resistance to alkalinity, bond strength	Ass. cat. 2: > 0.5 N/mm <sup>2</sup>
Reparability	NPD
Thickness	0.41 mm
Applicability	applicable
Release of dangerous substances	See SDS

<b>Sopro</b> Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com	
13 CPR-DE3/0527.2.eng Sopro FDF 527 ETA-13/0155 – ETAG 022 Part 1 Watertight covering kits for wet room floors and/or walls Liquid applied coverings with or without wearing surface	
Reaction to fire	Class E/E <sub>fl</sub>
Vapour permeability	s <sub>d</sub> = 72.0 m
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Resistance to temperature	Ass. cat. 2:
Bond strength – crack-bridging ability	> 0.5 N/mm <sup>2</sup> – 0.75 mm
Resistance to water, bond strength	Ass. cat. 2: > 0.5 N/mm <sup>2</sup>
Resistance to alkalinity, bond strength	Ass. cat. 2: > 0.5 N/mm <sup>2</sup>
Reparability	NPD
Thickness	0.41 mm
Applicability	applicable
Release of dangerous substances	See SDS

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# smet

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