

smet

# Sopro FDF

## Flexible sealing compound

525 grey · 527 light grey · 027 contrast agent for Sopro FDF



PG-AIV-F



Highly elastic, ready-to-use, one-component liquid waterproof coating for waterproofing indoor spaces to DIN 18534 Part 3. Liquid admixture for tinting Sopro FDF flexible sealing compound to provide contrast colour for application of second membrane coat. To help distinguish between and keep check on different membrane coats.

- For indoor walls and floors
- Waterproof membrane for incorporation below tile finish
- Available in contrast colours (grey and light grey)
- Contrast agent for tinting liquid waterproof coating also available in convenient syringe
- Sopro FDF-KM 027 contrast agent easy to stir in without equipment
- Suitable for floor heating systems
- Crack-bridging
- For brush, roller, trowel and spray application
- Solvent-free
- EMICODE system of GEV (German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials): ECI<sup>PLUS</sup> ("very-low-emission-plus") rating
- DGNB (German Sustainable Building Council): Top quality level 4, Line 9, based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version)

Use

Liquid waterproof membrane for waterproofing indoor spaces to DIN 18534, suitable for W0-I "Low water action" and W1-I "Moderate water action" applications (floor/wall), and W2-I "High water action" applications (wall). 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 flexible RS sealing slurry, Sopro DSF 423 two-component flexible sealing slurry or Sopro TDS 823 two-component turbo sealing slurry shall be used for permanently underwater applications, e.g. in swimming pools. Sopro PU-FD surface sealant shall 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/coverage**

Coat thicknesses after 2-coat application in accordance with good practice:

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>

In compliance with good practice, liquid waterproof membranes shall 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.

FDf-KM 027: 1 ml contrast agent per 1 kg FDF 525/527

Between +5°C and +35°C

**Application temperature****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**

FDf 525/527: Approx. 24 months in original unopened containers, protected from frost  
FDf-KM 027: Approx. 12 months in original unopened containers, protected from frost

**Packaging**

FDf 525: 20 kg bucket, 15 kg bucket, 5 kg bucket, 3 kg bucket  
FDf 527: 20 kg bucket, 15 kg bucket, 5 kg bucket, 3 kg bucket  
FDf-KM 027: Box (6 x 10 ml syringes)

**Substrate preparation**

Substrate preparation shall comply with good practice. Substrate shall 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 shall be single-coat, visually dry, and shall not be felt-floated or smoothed.

Calcium sulphate (anhydrite) screeds shall be ground and vacuum-cleaned.

Max. moisture content 0.5% CM for unheated, 0.3% CM for heated screeds.

Concrete substrates shall be min. 3 months old, cement screeds min. 28 days old and dry ( $\leq 2.0\text{--}2.5\%$  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 shall be dry and rigid with ventilated rear face. Under German "Building trades co-ordination committee procedures for surface-embedded heating and cooling systems", 2018 edition, heated screeds require system commissioning and heating prior to flooring installation.

**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**

Stir Sopro FDF prior to application. Start by sealing angles between wall and floor surfaces with Sopro sealing tapes and angle fittings certified for system compatibility. Seal any penetrations with Sopro wall or floor collars certified for system compatibility. To incorporate sealing tape and fittings, place these in coat of system-tested joint adhesive and press down such that liquid waterproof coating is squeezed out at sides. Any unevenness or creases can be pressed down and smoothed out with finishing trowel.

**Note on bonding at side/end joints:** A reactive, two-component Sopro sealing slurry (e.g. Sopro TDS 823 two-component turbo sealing slurry), Sopro FDK 415 fixing and waterproofing adhesive or (MS polymer-based) Sopro sealing adhesive (e.g. Sopro RMK 818 Racofix® universal adhesive) should be used to bond sealing tape and fittings. Moreover, under DIN 18534, tape and fittings shall always be subsequently overcoated over full surface and beyond edges with waterproof membrane.

**Notes on membrane installation:** Apply liquid waterproof coat to wall and floor surfaces in uniform thickness with selected tool, taking care to avoid pore formation. Likewise fully overcoat any pre-installed sealing tape and fittings. 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. Apply second coat when first coat has fully dried through. Under DIN 18534, liquid waterproof membranes shall be applied in at least two coats using contrast colours. After waterproof coats have fully dried, ceramic tiling may be installed using tile adhesive certified for system compatibility. Sopro FDF is not suitable for waterproofing floors of walk-in showers. For this purpose, Sopro flexible mineral sealing slurry or waterproof sheet membrane shall be used.

**Tinting of liquid waterproof coating to provide contrast colour with Sopro FDF-KM 027 contrast agent:** Liquid admixture for tinting Sopro FDF to provide contrast colour (in accordance with DIN 18534) for application of second membrane coat. 10 ml syringe can be used to simplify proportioning (1 ml FDF-KM 027 added per 1 kg FDF 525/527). Contrast agent can be stirred in without equipment (e.g. using wooden stick). Mechanical stirring speeds up colour change. As soon as streak-free contrast colour is achieved, apply material to wall and floor as second coat in uniform thickness. Syringes containing unused quantities of contrast agent can be sealed with screw cap for use at a later date.

**All suitable Sopro products for standards-compliant application are listed under "Test certificates". Please observe technical product information for relevant system products!**

**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, stirrer; wash tools with water immediately after use.

**Test certificates, test reports and licences**

**PG-AIV-F**

National test certificate (abP) for composite waterproofing systems with membrane and tile finish, for structural waterproofing in conjunction with:

Sealing tape: AEB 148, DB 438, DBF 638;  
 Sealing tape for angles: AEB 642, AEB 643, DE 014, DE 015;  
 Sealing collars: AEB 129, AEB 130, AEB 112, AEB 133, AEB 131, AEB 132, AEB 645, DWF 089, DMB 091;  
 Bonding at sides/ends: RMK 818, MKS 819, WB 588, TDS 823;  
 Tile adhesives: Sopro's No.1 (order no. 400), Sopro's No.1 Silver (order no. 403), Sopro's No.1 rapid-set (order no. 404), VF XL 413, VF 419, VF HF 420,  
 FKM XL 444, M&M 446, FF 450, FF 451, FKM 600, MEG 665, MEG 666, MEG 667, MG 669, MG 679, SC 808, SC 809, SC 810, Sopro's No.1 white (order no. 996, Sopro's No.1 white rapid-set (order no. 997);  
 Bath/shower sealing system: WBD 811, WDE 812, WDM 813 and other Sopro system components.

**ETAG**

European technical approval (ETA): ETA no. 13/0155 under ETAG 022 Part 1; Reaction to fire class: E/Efl. in conjunction with:

Sealing tape: AEB 641, AEB 148, DB 438, DBF 638;  
 Sealing tape for angles: AEB 642, AEB 643, DE 014, DE 015;  
 Sealing collars: AEB 129, AEB 130, AEB 112, AEB 133, AEB 131, AEB 132, AEB 645;  
 Bonding at side/end joints: MKS 819;  
 Tile adhesives: Sopro's No.1 (order no. 400), Sopro's No.1 Silver (order no. 403), Sopro's No.1 rapid-set (order no. 404), Sopro's No.1 white rapid-set (order no. 997), FKM XL 444, FF 450, SC 808, M&M 446 and other Sopro system components.

**GEV-EMICODE**

EC1<sup>PLUS</sup> ("very-low-emission-plus") rating

**Safety precautions**

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

**Contents:** 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):** 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.

**Disposal Considerations**

**Disposal considerations.** 13.1. 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.

**CE marking**

		 <b>Sopro</b>	
0921/0527 0767		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/Efl.	
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>	
0921/0527 0767		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/Efl.	
Vapour permeability	s <sub>d</sub> = 72.0 m		
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Crack-bridging ability	0.75 mm		
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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	

Please observe the current version of the product information, the currently valid declaration of performance under the EU Construction Products Regulation, and the latest version of the relevant safety data sheet to EC Regulation No 1907/2006, also available from the internet at [www.sopro.com](http://www.sopro.com)! This document serves as a product description and sets out general details, based on empirical and test data, that take no account of specific cases of application. No liability may be construed and no claims shall be accepted in respect of these details. Should you require assistance, please contact our Technical Counselling Service.

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FOR MORE INFORMATION CONTACT: **Smet Building Products Ltd**

93A Belfast Road | Newry | BT34 1QH | Northern Ireland

T: +44 (0)28 3026 6833    F: +353 (0) 1697 8586

E: [info@smetbuildingproducts.com](mailto:info@smetbuildingproducts.com)

[smetbuildingproducts.com](http://smetbuildingproducts.com) or [smet.ie](http://smet.ie)



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