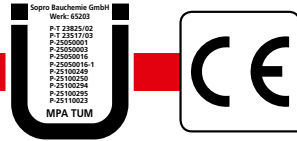




Sopro DSF 523

One-component flexible sealing slurry



Flexible, one-component, cementitious sealing slurry for installation of crack-bridging waterproof membranes (for composite membrane plus tile finish systems). For waterproofing indoor spaces to DIN 18534 Part 3 and for waterproofing tanks and pools to DIN 18535 Part 3 (equivalent to DIBt Construction Products List and ZDB data sheet).

- For damp and wet spaces
- For tanks and pools
- Vapour-permeable
- For brush, roller, trowel and spray application
- For walls and floors, indoors and outdoors
- With national test certificates (abP)
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

Use

For installation of waterproof membranes indoors (e.g. in showers, washrooms, toilets) to DIN 18534 Part 3 for water action classes W0-I "Low", W1-I "Moderate", W2-I "High" and W3-I "Very high" (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).

For installation of waterproof membranes in tanks and pools (e.g. swimming pools) to DIN 18535 Part 3 for water action class W1-B "Up to 4 m water head" (equivalent to Moisture Exposure Class B to Construction Products List).

Installation of waterproof membranes on balconies and patios based on DIN 18531 (equivalent to Moisture Exposure Class B0 to ZDB data sheet).

Suitable substrates

Mineral substrates, including concrete, lightweight concrete, aerated concrete, cement and lime/cement render, gypsum plasterboard and gypsum fibreboard, renders made from masonry cement, plane, flush-jointed masonry (no composite masonry), cement screeds, calcium sulphate (anhydrite and self-levelling anhydrite) screeds, board subfloors, existing ceramic coverings

Mixing ratio

	10 kg Sopro DSF 523	20 kg Sopro DSF 523
Brush application	2.9–3.1 ltr	5.8–6.2 ltr
Trowel application	2.6–2.8 ltr	5.2–5.6 ltr
Spray application	3.7–4.0 ltr	7.4–8.0 ltr

Coat thickness / consumption rate

Coat thicknesses after 2-coat application to DIN standard:

Water action classes	Min. dry coat thickness	Min. wet coat thickness	Consumption rate per mm dry coat thickness
W0-I – W3-I	2 mm	2.6 mm	1.4 kg/m ²
W1-B	2.5 mm	3.3 mm	1.4 kg/m ²

Under DIN standard, flexible mineral sealing slurry should be applied in at least two coats. 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.

Working life

Approx. 2 hours; stiffened mortar should not be retempered by addition of water or fresh mortar to restore workability

Drying time	Approx. 4 hours per coat
Application temperature	Between +5°C and +25°C
Walkable	After 5–6 hours
Loadable	After approx. 7 days
Shelf life	Approx. 24 months, subject to storage on pallet in dry conditions in original unopened containers
Packaging	20 kg bag, 10 kg bag
Substrate preparation	<p>Substrate should be strong, dimensionally stable and free from wide cracks and adhesion-impairing sub-stances (e.g. dust, oil, wax, release agent, efflorescence, laitance, paint, lacquer and varnish residue, old flooring adhesive residue).</p> <p>Sharp arrises should be chamfered and internal (wall/floor) angles rounded true to line with min. 4 cm radius. Coating should only be applied to elements not subject to settlement-related deformation. Any existing cracks in screed should be filled with Sopro GH 564 casting resin.</p> <p>At wall and floor penetrations, perimeter and movement joints, provision should be made for necessary incorporation of Sopro DMW 090 sealing collar for walls, Sopro DMB 091 sealing collar for floors, Sopro DB 438 sealing tape, Sopro DBF 638 pre-folded sealing tape and Sopro DE 014/015 sealing tape for internal/external angles. Sopro RMK 818 Racofix® universal adhesive, Sopro MKS 819 Racofix® uni-versal adhesive S, Sopro TDS 823 two-component turbo sealing slurry, Sopro DSF 423 two-component flexible sealing slurry or Sopro PU-FD surface sealant is recommended for waterproof bonding at laps between Sopro sealing tapes and with Sopro sealing tapes for internal/external angles.</p> <p>Only ancillary chemical products with a valid test mark, e.g. as concrete admixtures, should be used for substrate.</p> <p>Pre-wet cementitious substrates so as to ensure that they are slightly damp prior to application of Sopro DSF 523. Single pre-wetting generally suffices for new, unsoiled cementitious substrates.</p>
Priming	<p>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.</p> <p>Allowance should be made for approx. 12 hours' flash-off time for gypsum-based substrates pretreated with Sopro GD 749 primer. Please observe guidelines in Sopro GD 749 technical data sheet!</p> <p>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.</p> <p>Please observe technical product information and test certificates for relevant Sopro primer!</p>
Application	<p>Fill clean container with quantity of water required for application type (see above table for mix-ing ratio), add Sopro DSF 523 and mix mechanically to homogeneous, lump-free consistency. After 3–5 minutes maturing time, remix thoroughly.</p> <p>Spatula, brush, roller or spray apply two full-cover coats of Sopro DSF 523 (see above table for coat thickness) to slightly damp substrate. Apply second coat only after first coat has achieved adequate strength/walkability and has been inspected for defects.</p> <p>All parts of coated area should exhibit minimum coat thickness required for specific exposure type. In no place should dry coat thickness be exceeded by more than 100%. Particular care should be taken when applying coating at corners, internal/external angles and penetrations.</p> <p>Sopro DSF 523 is suitable for spray application. Use of a Wagner PC 830 PlastCoat spraying unit is recommended.</p> <p>Freshly applied coating should be protected from direct sunlight, rain and frost for approx. 12 hours. When waterproofing swimming pools, test filling should be performed at earliest after 14 days. With underwater applications, care should be taken to ensure that only continuous lengths of sealing tape are used to waterproof structural joints (avoid breaking up into several lengths).</p> <p>Where membrane is to receive a cement render coating (e.g. Sopro RAP 2 434 renovation and levelling render), a tile adhesive (e.g. Sopro's No.1) should first be combed onto hardened membrane as a pretreatment. This combed-on coating should be allowed to set for min. 48 hours.</p>
Disposal Considerations	<p>Waste treatment methods. Recover if possible. In so doing, comply with the local and national regulations currently in force.</p> <p>91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.</p> <p>Disposal of hardened product (EC waste code) : 17 01 01</p> <p>Disposal of not hardened product (EC waste code) : 17 01 01</p> <p>The suggested European waste code is just based on the composition of the product.</p> <p>According to the specific process or application field a different waste code may be necessary</p>

Note

Checks on coat thicknesses and drying: Under DIN 18195 Supplement 2, compliance with coat thickness requirements should be ensured during application by checking applied quantity per m² and wet coat thickness.

Tools

Finishing trowel, notched spatula, thick/block brush, lambswool roller, electrical screw pump; clean tools with water immediately after use; mechanical cleaning required when set

Specified times

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

Test certificates and test reports**Technische Universität München:**

– National test certificates (abP) under PG-AIV (Criteria for Award of National Test Certificates for Waterproof Membranes Used in Conjunction with Tile Coverings) in conjunction with Sopro FF 450, Sopro's No.1 (order no. 400), Sopro's No.1 rapid-set (order no. 404), Sopro's No.1 white (order no. 996), Sopro's No.1 white rapid-set (order no. 997), Sopro MFK 446, Sopro VF HF 420, Sopro VF XL 413, Sopro MEG 666, Sopro MEG 665, Sopro FKM XL 444, Sopro GD 749 and other Sopro system components. In accordance with ZDB data sheet in conjunction with relevant Sopro flexible tile adhesives

Technische Universität München:

– Test report: Sopro DSF 523 in conjunction with Sopro's No.1 (order no. 400), Sopro's No.1 rapid-set (order no. 404), Sopro VF XL 413, Sopro VF HF 420, Sopro FKM XL 444, Sopro MFK 446, Sopro FF 450, Sopro MEG 665, Sopro MEG 666, Sopro's No.1 white (order no. 996), Sopro's No.1 white rapid-set (order no. 997) and Sopro GD 749 meets requirements to DIN EN 14891, including those for tensile adhesion strength after storage in chlorinated water

Exempt from labelling requirements under Regulation (EC) No 1272/2008 (CLP). Contains cement.

Exhibits strong alkaline reaction upon contact with moisture/water; protection required for skin and eyes. Rinse with water in case of contact. In case of contact with eyes, also seek medical advice. The product is combustible and may create an explosive atmosphere when mixed with air. Avoid dust formation and electrostatic build-up. All standard precautions for the handling of construction materials/chemicals should be taken.

Precautionary statements: P102 Keep out of reach of children. **P332+P313** If skin irritation occurs: Get medical advice/attention.

EUH210 Safety data sheet available on request.

German Water Hazard Class (WGK): WGK 1: slightly hazardous to water (self-assessment in accordance with VwVw5 – German Administrative Regulations on the Classification of Substances Hazardous to Waters into Water Hazard Classes – of 17.05.1999)

GISCODE (German hazardous substances classification): ZP 1 - Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

Safety precautions**CE marking**

	 Sopro Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
	14 CPR-DE3/0523.1.eng EN 14891:2013 Sopro DSF 523
Liquid-applied water impermeable product, based on polymer-modified cementitious mortar (CM), for application below ceramic tiling on outdoor walls and floors, and in swimming pools (bonded with C2 adhesive in accordance with EN 12004)	
Initial tensile adhesion strength Tensile adhesion strength after water contact Tensile adhesion strength after heat aging Tensile adhesion strength after contact with lime water Tensile adhesion strength after freeze-thaw cycles Water impermeability Crack bridging ability under standard conditions	$\geq 0.5 \text{ N/mm}^2$ $\geq 0.5 \text{ N/mm}^2$ $\geq 0.5 \text{ N/mm}^2$ $\geq 0.5 \text{ N/mm}^2$ $\geq 0.5 \text{ N/mm}^2$ no penetration $\geq 0.75 \text{ mm}$
Release of dangerous substances	see SDS

bringing european innovation

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