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.

- 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	W3-I "Very high" (equival List issued by DIBt (Germa German Construction Indu For installation of waterp	er action classes W0-I ' lent to Moisture Expos in Institute for Constru ustry) data sheet). roof membranes in ta er action class W1-B " l	"Low", W1-I "Mc sure Classes A an uction Technolog nks and pools (e. Jp to 4 m water	derate", W2-I "High" and d A0 to Construction Products y) and ZDB (Federation of the
Suitable substrates	lime/cement render, gypsu cement, plane, flush-joint	um plasterboard and g ed masonry (no comp	gypsum fibreboa osite masonry), c	rated concrete, cement and rd, renders made from masonry ement screeds, calcium sulphate , existing ceramic coverings
Mixing ratio		10 kg Sopro DS	F 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/	Coat thicknesses after 2-co	oat application in acco	ordance with goo	od practice:
consumption rate	Water action classes	Min. dry coat thickness	Min. wet co thickness	oat Consumption rate per mm dry coat thickness
	W0-I – W3-I	2 mm	2.6 mm	1.4 kg/m²
	W1-B	2.5 mm	3.3 mm	1.4 kg/m²

Under DIN standards, to ensure minimum coat thickness d_{min}, a thickness supplement of up to 25 % of d_{min} may be necessary depending on roughness.

Working life	Approx. 2 hours; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability
Drying time	Approx. 4 hours per coat
Ideal application temperature	Between +5 °C and +25 °C
Walkable	After 5–6 hours
Resistant to water pressure	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	Substrate shall be strong, dimensionally stable and free from wide cracks and adhesion-impairing substances (e.g. dust, oil, wax, release agent, efflorescence, laitance, paint, lacquer and varnish residue, old flooring adhesive residue).
	Sharp arrises shall be chamfered and internal (wall/floor) angles rounded true to line with min. 4 cm radius. Sopro DSF 523 shall only be applied to elements not subject to settlement-related deformation. Any existing cracks in screed shall be filled with Sopro GH 564 casting resin.
	At wall and floor penetrations, perimeter and movement joints, provision shall 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.
	Only ancillary chemical products with a valid test mark, e.g. as concrete admixtures, shall be used for substrate. 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.
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, fluxh-jointed masonry.
	Allowance shall 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!
	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 and test certificates for relevant Sopro primer!
Application	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.
	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.
	All parts of coated area shall exhibit minimum coat thickness required for specific exposure type. In no place shall dry coat thickness be exceeded by more than 100%. Particular care shall be taken when applying coating at corners, internal/external angles and penetrations.
	Sopro DSF 523 is suitable for spray application. Use of a Wagner PC 830 PlastCoat spraying unit is recommended.
	Freshly applied coating shall be protected from direct sunlight, rain and frost for approx. 12 hours.
	Three-coat application is recommended by Sopro for underwater applications. Upon completion of waterproofing works, trial filling of swimming pool is required. With Sopro DSF 523 membranes, this may be performed after 14 days. Upon completion of trial filling, a three-day waiting time is required after pool is emptied. Dried waterproof membrane shall then be visually inspected and thoroughly cleaned to remove dust and adhesion-impairing deposits or incrustations. After this, tiling may be performed.

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) shall first be combed onto hardened membrane as a pretreatment. This combed-on coating shall be allowed to set for min. 48 hours.

Note on bonding at 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. For Sopro DSF 523, a minimum drying time of 28 days shall be ensured. In case of shorter construction windows or unfavourable weather conditions on site (e.g. cool or damp weather), then only a reactive, two-component Sopro sealing slurry or MS polymer-based Sopro sealing adhesive shall be used.

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

Checks on coat thicknesses and drying: Under DIN 18195 Supplement 2, compliance with coat thick-Note ness requirements shall be ensured during application by checking applied quantity per m² and wet coat thickness. Finishing trowel, notched spatula, thick/block brush, lambswool roller, electrical screw pump; clean Tools tools with water immediately after use; mechanical cleaning required when set Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures short-Specified times en and lower temperatures lengthen these times. PG-AIV-F: Test certificates, National test certificate (abP) for composite waterproofing systems with membrane and tile finish, for test reports and licences 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 side/end joints: 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), Sopro's No.1 white (order no. 996), Sopro's No.1 white rapid-set (order no. 997), FKM XL 444, FKM 600, VF XL 413, VF 419, VF HF 420, MEG 665, MEG 666, MEG 667, MG 679, FF 450, FF 451, M&M 446, SC 810; Other: WBD 811, WDE 812, WDM 813 and other Sopro system components. EMICODE system of GEV (German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials): EC1PLUS ("very-low-emission-plus") rating Exempt from labelling requirements under Regulation (EC) No 1272/2008 (CLP). Contains cement. **Safety precautions** 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 shall be taken. 32+P313 If skin irritation occurs: Get medical advice/attention. to water (self-assessment in accordance with VwVwS ostances Hazardous to Waters into Water Hazard Classes ow-chromate to Regulation (EC) No 1907/2006, Annex XVII. **CE marking**

of 17.05.1999)	Hazard Class (WGK): WGK 1: istrative Regulations on the C nan hazardous substances clas	lassification
CE 0761	Sopro Bauchemie C Biebricher Straße 74 - 65203 Wiest www.sopro.com	
cementitious	14 CPR-DE3/0523.1.eng EN 14891:2013 Sopro DSF 523 ater impermeable product, based on p mortar (CM), for application below cera	mic tiling on
(bonded	oor walls and floors, and in swimming p with C2 adhesive in accordance with El	N 12004)
Tensile adhesion Tensile adhesion Tensile adhesion Water impermeat	trength after water contact trength after heat aging trength after contact with lime water trength after freeze-thaw cycles	$\geq 0.5 \text{ N/mm}$ no penetratior $\geq 0.75 \text{ mm}$
	ous substances	see SD

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! 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.

Disposal

Disposal considerations. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible. A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal: Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority reduirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers. Clean waste packaging should be recycled when possible and authorized by the authority.

Hazardous waste: No

Disposal considerations:

Do not allow to enter drains or watercourses. Dispose of product according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the

appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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