

Sopro VF 419

VarioFlex[®] Silver

VF 419



Silver-grey, rapid-set, cementitious flexible thin-, medium- and floating-bed tile adhesive, meeting C2 EF S1 requirements to DIN EN 12004. For installation of ceramic floor coverings. Particularly suitable for light-coloured and discoloration-sensitive tiles and natural stone units as well as large-format units. Creamy consistency and exceptionally smooth workability for optimum floor laying. Suitable for use in conjunction with floor heating and waterproof membranes. Ideal for fast-track or tightly scheduled schemes. High reliability through full rear-face wetting and contact adhesion plus rapid crystalline water binding.

- for floors, indoors and outdoors
- C2: tensile adhesion strength $\geq 1.0 \text{ N/mm}^2$
- E: extended open time ≥ 30 minutes
- F: early tensile adhesion strength $\geq 0.5 \text{ N/mm}^2$ after 6 hours
- S1: deformability $\geq 2.5 \text{ mm}$
- 3-in-1 formulation: for thin-, medium- and floating-bed tile laying
- Walkable and groutable: after approx. 3 hours
- Particularly suitable for large-format fully vitrified stoneware tiles
- Ideal for use in conjunction with tile levelling systems
- Silver-grey adhesive, also suitable for light-coloured, translucent natural stone types
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII
- DGNB (German Sustainable Building Council): Top quality level 4, Line 8, based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2018 version)
- For healthy living: Recommended by Sentinel Haus Institut

Coverage: Approx. 1.3 kg/m^2 per mm coat thickness.



Packaging		Packages	Pallet weight
Bag	25 kg	40	1000 kg

Use	Earthenware, stoneware and fully vitrified stoneware tiles, clinker floor tiles, mosaic, light-coloured, discoloration-sensitive and translucent natural stone units, cast stone units, terracotta, dishing/curling-prone resin-bonded tiles, e.g. agglomerate tiles. Particularly suitable for large-format fully vitrified stoneware units. Suitable for fast-track refurbishment/renovation on tightly scheduled projects, for private housing as well as for commercial and industrial facilities subject to high mechanical loads.
Properties	Silver-grey, highly flexible, high-coverage, extra-rapid-set, cementitious thin-, medium- and floating-bed tile adhesive. Highly polymer-modified and with original Rhenish trass, meeting C2 EF S1 requirements to DIN EN 12 004. For installation of ceramic floor coverings, in particular for discoloration-sensitive and/or translucent natural stone tiles, on all substrates. Ideal for large-format fully vitrified stoneware due to its rapid-set properties in conjunction with a nonetheless long open time. For reliable laying of large-format and dishing/curling-prone units. Creamy consistency and exceptionally smooth workability. Rapid-set properties make it ideal for fast-track or tightly scheduled projects where rapid reuse of floorspace is required. With high crystalline water binding capacity.
Suitable substrates	Min. 3-month-old concrete, lightweight concrete, cement screeds, calcium sulphate (anhydrite and self-levelling anhydrite) screeds, mastic asphalt screeds (indoors), board subfloors, heated floor constructions (cement and calcium sulphate screeds), strong existing ceramic, natural stone, terrazzo or cast stone coverings, paperless gypsum panels, gypsum plasterboard and gypsum fibreboard, flush-jointed masonry (no composite masonry), renders made from masonry cement, cement render, lime/cement render, gypsum plaster and rigid foam board. As a basic requirement, all substrates shall be solid, strong and dimensionally stable. Specifications of DIN 18157 shall be observed. Waterproof membranes using Sopro FDF flexible sealing compound, Sopro DSF 523 one-component flexible sealing slurry, Sopro TDS 823 two-component turbo sealing slurry and Sopro AEB 640 waterproofing and separating membrane
Substrate preparation	Substrate shall be clean, solid, strong, dimensionally stable and free from any adhesion-impairing substances. Fill any existing cracks in screed with structurally bonding Sopro SH 649 shaken resin. Level out any gross irregularities using Sopro RAM 3 454 renovation and levelling mortar or Sopro RS 462 repair filler; for floors, use Sopro FS 15 550 floor-levelling compound, Sopro VS 582 self-levelling filler or Sopro FS 5 549 floor-levelling compound. Cement screeds shall be 28 days old and dry. Screeds incorporating Sopro Rapidur® B1 rapid-set screed binder are ready to receive tiles after only 12 hours, Sopro Rapidur® B3 after 1 - 2 days, and Sopro Rapidur® B5 after 3 days. Calcium sulphate (anhydrite and self-levelling anhydrite) screeds shall be adequately ground, vacuum-cleaned and primed, and shall exhibit moisture content ≤ 0.5% CM for unheated and ≤ 0.3% CM for heated constructions. Gypsum plasterwork shall be dry, single-coat and shall not be felt-floated or smoothed. Cement and calcium sulphate screeds incorporating heating elements shall be heated up to ensure adequate drying out prior to flooring installation. Here, cement screeds shall exhibit residual moisture ≤ 2.0% CM. All relevant standards, guidelines and recommendations shall apply; workmanship shall comply with good practice.
Priming	Sopro GD 749 primer: Concrete, cement screeds, calcium sulphate (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 SG 602 primer-sealer: Cement render, lime/cement render, gypsum plaster, homogeneous, flush-jointed masonry (no composite masonry), concrete, aerated concrete, paperless gypsum panels, gypsum plasterboard and gypsum fibreboard, cement screeds, calcium sulphate screeds. Suitable for

ceramic tiles, natural stone and separated timber substrates. For large-format tiles (of size > 0.36 m²), use of rapid-set, rapid-drying bedding adhesives is recommended in conjunction with Sopro SG 602. Sopro HPS 673 bonding primer: Smooth and closed-pore substrates, e.g. existing tile, terrazzo, natural and cast stone coverings, metal substrates (indoors), timber substrates, oriented strand board (OSB), adhesive residue from PVC flooring or carpeting. Sopro MGR 637 multi-purpose primer/Sopro EPG 522 epoxy primer: Calcium sulphate (anhydrite) screeds. For details relating to tile sizes to be laid on calcium sulphate screeds, please consult technical data sheets for relevant primers.

Application	Fill clean container with specified water quantity, add 25 kg Sopro VF 419 and mix thoroughly to workable, lump-free consistency. After 3 – 5 minutes maturing time, remix thoroughly. Apply contact layer with finishing trowel, then apply combed bed with suitable notched trowel (tool angle 45° – 60°). Apply only as much adhesive as can be covered by tiles during open time (30 minutes). Press tiles firmly into adhesive bed, position and align. Rake out joints prior to hardening and wash down covering. Use buttering/floating method for laying large-format units.														
Water requirement	Please pay attention to exact water dosage.														
Application temperature	Application temperature between +5 °C and +25 °C														
Coverage chart	<table border="1"> <tr> <td>Serration (mm)</td> <td>4</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>20</td> </tr> <tr> <td>Coverage kg/m²</td> <td>1.3</td> <td>2.0</td> <td>2.6</td> <td>3.3</td> <td>3.9</td> <td>4.2</td> </tr> </table> <p>All stated consumption/coverage rates depend on angle of application with notched trowel and on substrate type and levelness.</p> <p>20 mm serration corresponds to M1 serration to TKB (German Technical Committee for Construction Adhesives) guidance paper (U-shaped serration).</p>	Serration (mm)	4	6	8	10	12	20	Coverage kg/m ²	1.3	2.0	2.6	3.3	3.9	4.2
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Loadable	After approx. 5 hours; in commercial facilities after approx. 2 days; in areas subject to high wet exposure after approx. 3 days; for underwater applications after approx. 10 days; in conjunction with floor heating after approx. 7 days														
Maturing time	3-5 minutes														
Note	Particularly when using tile levelling systems, adopt buttering/floating method for laying large-format units. When using tile levelling systems, substrate shall be properly level and suitably pretreated.														
Shelf life	Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers														
Specified times	Apply for normal temperature range of +23 °C and 50 % relative humidity; higher temperatures shorten and lower temperatures lengthen these times.														
Tool cleaning	Wash tools with water immediately after use														
Tools	Mixing attachment, notched trowel with suitable serration, medium-bed trowel; tile levelling systems														
Underwater and permanently underwater area	Suitable														
Walkable / groutable	After approx. 3 hours or after setting of adhesive; take measures to spread loads over floor														
Wall and floor heating	Suitable														
Working life	3 – 4 hours; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability														

Test certificates

DIN EN 12 004: C2 EF S1 PG-AIV-B (Criteria for Award of National Test Certificates for Waterproof Sheet Membranes Used in Conjunction with Tile Coverings): National test certificate (abP) for composite waterproofing systems with membrane and tile finish, for structural waterproofing in conjunction with AEB 640 and other Sopro components PG-AIV-F (Criteria for Award of National Test Certificates for Liquid-Applied Waterproof Membranes Used in Conjunction with Tile Coverings): National test certificate (abP) for composite waterproofing systems with membrane and tile finish, for structural waterproofing in conjunction with Sopro DSF 523, TDS 823, FDF 525/527 and other Sopro components

Licence

EMICODE system of GEV (German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials): EC1^{PLUS} ("very-low-emission-plus") rating

Safety precautions

GHS05

Signal word: Danger

Contains Portland cement. Cr (VI) < 2 ppm. Exhibits strong alkaline reaction upon contact with moisture/water; protection required for skin and eyes. All standard precautions for the handling of construction materials/chemicals shall be taken.

H318 Causes serious eye damage.

P102 Keep out of reach of children. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection/ P302-P352 IF ON SKIN: Wash with plenty of water/... P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor P501 Dispose of contents/ container in accordance with regulations.

GISCODE ZP 1

Low-chromate to Regulation (EC) No 1907/2006, Annex XVII
For trade applicators only!

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

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 requirements.

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

Do not dispose of waste into sewers.

Hazardous waste: Yes

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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