JMay 2026

VarioFlex® Silver

S1 rapid-set flexible adhesive

VF 419

Silver-grey, rapid-set, cementitious flexible thin-, medium- and floating-bed tile adhesive, meeting C2 FE 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 ≥ 1.0 N/mm²
- F: early tensile adhesion strength ≥ 0.5 N/mm² after 6 hours
- E: extended open time ≥ 30 minutes
- S1: Deformability ≥ 2.5 mm
- 3-in-1 formulation: For thin-, medium- and floating-bed tilelaying
- Walkable and groutable: after approx. 3 hours
- Particularly suitable for large-format fully vitrified stoneware tiles
- Ideal for Sopro LevelTool system
- Silver-grey adhesive, also suitable for light-coloured, translucent natural stone types
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII

Coverage: Approx. 1.3 kg / m² / mm

Order nr.	Delivery form	Pcs./pal.	kg/pal.
7741925	Bag 25 kg	40	1.000 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 12004. 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.

Temperature Resistance

bis +80 °C

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 RS462 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.

Primer

For high- and variable-suction substrates: Sopro GD 749 primer and Sopro SG 602 primer-sealer

For non-absorbent substrates: Sopro HPS 673 bonding primer

For calcium sulphate screeds: Sopro MGR 637 multi-purpose primer (for all sizes), Sopro GD 749 primer (sizes up to 0.2 m^2), Sopro SG 602 primer-sealer (sizes up to 1.0 m^2)

For stabilizing friable mineral substrates and as adhesion promoter on smooth substrates: Sopro EPG 1522 epoxy primer

For further information, please consult relevant technical data sheets.

Application

Fill clean container with specified water quantity, add 25 kg Sopro VF 419 and mix thoroughly to workable, lump-free consistency. After 3 – 5minutes 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 (30minutes). 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 demand

Per package	25 kg
Thin bed	5,5 l - 6 l
Medium bed	5 l - 5,5 l

Floating bed	6,5 l - 7,5 l

Walkable / Groutable

After approx. 3hours or after setting of adhesive; take measures to spread loads over floor

Loadable

After approx. 5 hours; in commercial facilities after approx. 2days; in areas subject to high wet exposure after approx. 3days; for underwater applications after approx. 10days; in conjunction with floor heating after approx. 7days

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

GEV Emicode

EC1PLUS very low emissionPLUS

Maturation time

3 - 5 minutes

Underwater And Permanently Underwater Area

Suitable

Application Temperature

Application temperature between +5 °C and +25 °C

Working Life

3 – 4 hours; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability

Coverage Chart

Serration (mm)	4	6	8	10	12	20
Coverage kg/m²	1.3	2.0	2.6	3.3	3.9	4.2

All stated consumption/coverage rates depend on angle of application with notched trowel and on substrate type and levelness.

20 mm serration corresponds to M1 serration to TKB (German Technical Committee for Construction Adhesives) guidance paper (U-shaped serration).

Recommendation for grouting

The following are recommended for grouting ceramic tiles with absorbent tile bodies (earthenware) for stated joint widths:

from 1 to 5 mm – Sopro Saphir® 5 water-repellent tile grout

from 1 to 10 mm – Sopro DF 10 flexible designer tile grout

The following are recommended for grouting tiles with low-suction or non-absorbent tile bodies (stoneware and fully vitrified stoneware) for stated joint widths:

from 1 to 10 mm – Sopro DF 10 flexible designer tile grout

	from 2 to 20 mm – Sopro FL plus flexible tile grout The following are recommended for grouting natural and cast stone coverings for stated joint widths: from 1 to 10 mm – Sopro DF 10 flexible designer tile grout from 2 to 20 mm – Sopro FL plus flexible tile grout The following are recommended for grouting coverings subject to high mechanical loads (workshops, commercial facilities) for stated joint widths: from 1 to 10 mm – Sopro TF+ high-strength tile grout from 3 to 30 mm – Sopro TFb high-strength tile grout The following are recommended as chemical-resistant tile grouts for stated joint widths: from 1 to 10 mm – Sopro DFX designer epoxy tile grout from 1.5 to 12 mm – Sopro FEP epoxy tile grout
Wall and floor heating	Suitable
Tools	Mixing attachment, notched trowel with suitable serration, medium-bed trowel; tile levelling systems
Tool Cleaning	Wash tools with water immediately after use
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	DIN EN 12004: C2 FE S1 PG-AIV-F (Criteria for Award of National Test Certificates for Liquid-Applied Waterproof Membranes Used in Conjunction with Tile Coverings): System component for national test certificate (abP) based on system test in conjunction with DSF 523, TDS 823, FDF 525/527 and other Sopro components PG-AIV-B (Criteria for Award of National Test Certificates for Waterproof Sheet Membranes Used in Conjunction with Tile Coverings): System component for national test certificate (abP) based on system test in conjunction with AEB 640 and other Sopro components
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 (in dry conditions, in original, unopened containers)
Giscode A	ZP1
Safety instructions	Labelling in accordance with Regulation (EC) No 1272/2008 (CLP). GHS05 **Signal word** Danger Causes serious eye damage. Keep out of reach of children. Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

Immediately call a POISON CENTER/doctor/…
Dispose of contents/container in accordance with applicable regulations.
Contains: Contains: Portland cement, Cr (VI) < 2 ppm.
German Water Hazard Class: German Water Hazard Class WGK 1 (slightly hazardous to water)
GISCODE: ZP1
Low-chromate to Regulation (EC) No 1907/2006, Annex XVII

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
13.1. 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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