



Sopro FL plus

Flexible tile grout, 2–20 mm

1135 white 10 · 1131 light grey 16 · 1126 silver grey 17 · 1120 grey 15 · 1122 sand grey 18 · 1127 stone grey 22 · 1121 concrete grey 14 · 1125 basalt 64 · 1123 anthracite 66 · 1124 black 90 · 1133 jasmine 28 · 1132 light beige 29 · 1129 bahama beige 34 · 1130 jura beige 33 · 1134 brown 52 · 1128 bali brown 59 · glitter: 1019 gold glitter · 1020 silver glitter



Strong, flexible, frost-resistant, rapid-set, cementitious tile grout, meeting CG2 WA requirements to DIN EN 13888, for smooth, easy grouting of narrow and wide joints in wall and floor coverings, indoors and outdoors, to produce brilliantly coloured, lime-film-free finish.

Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- First-rate joint-filling properties and washability (removability)
- Optimum degree of joint filling
- Uniformly brilliant colouring and lime-film-free thanks to OPZ® (Portland cement-free) technology
- Easy-care due to water and dirt repellency
- Greater protection for joints against mould formation and microorganisms
- High crystalline water binding capacity
- High abrasion resistance: CG2 WA to DIN EN 13888
- Enhanced resistance, even to acidic cleaners¹⁾
- Resistant to high-pressure cleaning equipment²⁾
- Walkable after only 2 hours, loadable after only approx. 12 hours
- Optional enhancement through addition of Sopro gold and silver glitter
- For walls and floors, indoors and outdoors
- DGNB (German Sustainable Building Council): Top quality level 4, Line 8³⁾
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): ECI^{PLUS} ("very-low-emission-plus") rating

Use

Particularly suitable for grouting stoneware, fully vitrified stoneware, natural and cast stone coverings, split tiles, glass blocks and clinker floor tiles with 2–20 mm joint widths, to produce brilliantly coloured finish both indoors and outdoors. For public- and private-sector buildings, in conjunction with floor heating, in damp and wet spaces, on balconies and patios, and in many other areas. Optional enhancement through addition of Sopro gold and silver glitter.

Mixing ratio

2.85–3.3 ltr water : 15 kg Sopro FL plus
0.95–1.1 ltr water : 5 kg Sopro FL plus

Enhancement with Sopro glitter:

3.15–3.75 ltr water : 15 kg Sopro FL plus: max. 6 bags of Sopro gold or silver glitter
1.05–1.25 ltr water : 5 kg Sopro FL plus: max. 2 bags of Sopro gold or silver glitter

Maturing time

3–5 minutes

Working life

30–40 minutes; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability.

Walkable

After approx. 2 hours

Loadable

Ready to accommodate mechanical loads after approx. 12 hours

¹⁾ Compared to standard Sopro cementitious tile grouts for domestic applications

²⁾ Standard domestic high-pressure cleaning equipment

³⁾ Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).

Application temperature	Between +5°C and max. +25°C
Joint width	2–20 mm
Coverage	Approx. 0.4 kg/m ² for 30×60 cm tiles and approx. 5 mm joint width/10 mm joint depth; 0.7–1.0 kg/m ² for 30×30 cm or 40×40 cm tiles and approx. 10 mm joint width/10 mm joint depth
Shelf life	Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers
Packaging	15 kg bag, 5 kg bag; Glitter: 100 g bag (only available in box with Nr 10)
Properties	Strong, flexible, frost-resistant, rapid-set, cementitious tile grout for wide and narrow joints in wall and floor coverings, indoors and outdoors, to produce brilliantly coloured, lime-film-free finish. For smooth, easy grouting of stoneware, fully vitrified stoneware, natural and cast stone coverings, ceramic split tiles, glass blocks and clinker floor tiles. First-rate joint-filling properties and washability (removability) in conjunction with optimum degree of filling. Enhanced protection for joints against mould formation and microorganisms plus lime-film-free finish ensure brilliantly coloured joint pattern with lasting appeal. Inherent water-beading effect and Hydrodur® technology create water- and dirt-repellent joints with antimicrobial capability. Also suitable for use in conjunction with floor heating. Sopro gold glitter or Sopro silver glitter can be added to create a distinctive, glistening joint finish.
Application	<p>Rake out joints to tile thickness before bedding adhesive sets and clean thoroughly. Ensure that bedding adhesive has fully cured prior to grouting. (Please observe guidelines in technical data sheet for relevant bedding adhesive!).</p> <p>Fill clean mixing container with 2.85–3.30 ltr clean mains water for 15 kg Sopro FL plus dry powder (or 0.95–1.1 ltr clean mains water for 5 kg Sopro FL plus dry powder), add correct proportion of grout and mix mechanically using mixing attachment to produce homogeneous, creamy grout. After 3–5 minutes maturing time, remix thoroughly. Observance of required maturing time is essential!</p> <p>Enhancement with Sopro glitter:</p> <p>Fill clean mixing container with 3.15–3.75 ltr clean mains water for 15 kg Sopro FL plus dry powder (or 1.05–1.25 ltr clean mains water for 5 kg Sopro FL plus dry powder), add correct proportion of grout and mix mechanically using mixing attachment to produce homogeneous, creamy grout. While mixing, slowly add up to max. 6 bags (each containing 100 g) for 15 kg Sopro FL plus or 2 bags (each containing 100 g) for 5 kg Sopro FL plus of Sopro gold glitter or Sopro silver glitter, as required. After 3–5 minutes maturing time, remix thoroughly. Observance of required maturing time is essential!</p> <p>Trial grouting with required quantity of glitter is recommended. Consistency and colour of grout may change due to addition of glitter.</p> <p>Grout clean, raked-out joints, which may require slight pre-wetting depending on thickness and suction of tiles, with Sopro FL plus using rubber squeegee or grout float, applying slight pressure so as to ensure that joints are completely filled. Do not spread dry mortar powder over joints.</p> <p>Allow adequate drying time (depending on suction of covering) for freshly applied grout, then wash down tiled surface working diagonal to joints and taking care not to wash out surface of joint. This improves smoothness and compactness of joint surface.</p> <p>Note: Pre-wetting of covering and, as a rule, trial grouting to check complete removability of cement and pigment residue are recommended for ceramic and natural stone coverings with rough, profiled, unglazed, unpolished or open-pored finish and for polished fully vitrified stoneware exhibiting surface micropores of varying size.</p> <p>Regularly replace wash water with fresh water. Freshly grouted joints shall be protected against all action that may impair setting, e.g. high temperatures, wind, rain or frost. Hardening process and colour brilliance of finished joints largely depend on a steady supply of moisture during setting. Constructional solutions that encourage particularly high suction, e.g. traditional thick-bed methods for ceramic and natural stone coverings, may cause colour variations in grout, though these may even out during drying out process.</p>

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.

For maximum colour uniformity, particularly with heavily pigmented and dark grout colours, exact compliance with specifications regarding mixing water quantity, homogeneous mixing and maturing time is essential. Ensure that a minimum amount of wash water is used for washing down, that wash water is frequently changed and that no water film is left covering joints. Dry rubbing of washed and stiffened joints enhances colour brilliance of joint surface.

Unwashed, discolouring sand aggregate present in thick-bed mortars or discolouring substances from adjoining materials may cause staining. Full water repellency is achieved after approx. 7 days. Acidic media may, depending on their concentration, attack and destroy cementitious grouts. For this reason, compliance with cleaner manufacturer's instructions on use is required when acidic cleaning agents are used. Use of acidic cleaning agents is recommended at earliest after approx. 3 days. Surface to be cleaned shall generally be pre-wetted with water prior to use of acidic cleaning agents and shall be immediately rinsed with plenty of water after cleaning.

Cleaning with standard domestic high-pressure equipment after 7 days. (Minimum distance between nozzle and joint > 30 cm). Ensure that floor joints grouted with Sopro FL plus and Sopro glitter are cleaned regularly. Dirt and incrustations on joints may impair glitter effect. Sopro glitter can also be blended with Sopro DF 10 flexible designer tile grout, Sopro TF+ high-strength tile grout or Sopro FEP plus epoxy tile grout. Sopro glitter shall not be used to prepare other cementitious Sopro tile grouts. As some types of natural stone may be prone to discoloration in contact with tile grouts, sample areas (mock-ups) shall be prepared for discoloration-sensitive natural stone coverings in order to assess suitability of grout.

Specified times

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

Tools/tool cleaning

Mixing attachment, stainless-steel trowel, rubber squeegee, grout float, sponge float, roller set for cleaning; wash tools with water immediately after use.

Licence

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

Safety precautions

This product is a "treated article" under Regulation (EU) No 528/2012 (Biocides Regulation). Contains biocidal active substance 2-octyl-2H-isothiazol-3-one to protect against fungal attack. Keep out of reach of children. Avoid contact with skin.

Labelling: 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. Once set, the material poses no physiological or ecological hazards.

EUH210 Safety data sheet available on request.

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

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

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. 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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