

24-month
shelf life

Sopro DF 10®

FLIESEN & PLATTEN
Leserwahl
Produkt des Jahres 2012
1. Platz

Flexible designer tile grout

1050 white 10 · 1051 light grey 16 · 1052 silver grey 17 · 1053 grey 15 · 1062 stone grey 22 ·
1054 concrete grey 14 · 1055 sand grey 18 · 1069 manhattan 77 · 1056 jasmine 28 ·
1063 light beige 29 · 1057 beige 32 · 1064 jura beige 33 · 1068 caramel 38 · 1058 parchment 27 ·
1065 bahamabeige 34 · 1066 brown 52 · 1059 bali brown 59 · 1073 basalt 64 · 1060 anthracite 66 ·
1061 black 90 · 1070 signal red 91 · 1071 wine red 92 · 1072 deep blue 98
Glitter: 1019 Gold glitter · 1020 Silver glitter



Strong, flexible, rapid-set, cementitious tile grout, meeting CG2 WA requirements to DIN EN 13888, for grouting all types of ceramic and natural stone coverings to produce brilliantly coloured, lime-film-free finish.
Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- For 1–10 mm joint widths
- Uniformly brilliant colouring and lime-film-free thanks to OPZ® (Portland cement-free) technology
- For all types of ceramic, natural stone, glass mosaic and agglomerate tile coverings
- Easy-care due to water and dirt repellency
- Enhanced resistance, even to acidic cleaners*
- Greater protection against mould formation and microorganisms
- High abrasion resistance: CG2 WA to DIN EN 13888
- Walkable after only 2 hours, loadable after only 12 hours
- High crystalline water binding capacity
- For walls and floors, indoors and outdoors
- DGNB (German Sustainable Building Council): Top quality level 4, Line 7***
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1^{PLUS} ("very-low-emission-plus") rating **

Use

For grouting all types of ceramic, natural stone and cast stone coverings, thin tile coverings (≤ 4 mm), glass mosaic and agglomerate tile coverings, with 1–10 mm joint widths, to produce brilliantly coloured finish on indoor and outdoor walls and floors.
Optional enhancement through addition of Sopro gold and silver glitter.
Suitable for damp and wet spaces, living areas exposed to dirt/soiling, food areas and in conjunction with floor heating. Although Sopro DF 10® is suitable for use in swimming pools, the following custom-formulated tile grouts are recommended for such applications: Sopro TF+ high-strength tile grout, Sopro TFb high-strength tile grout, Sopro FEP plus epoxy tile grout, Sopro FEP 604 three-component epoxy tile grout and Sopro Topas DFE designer epoxy tile grout.

Mixing ratio

2.4–2.6 ltr water : 10 kg Sopro DF 10®;
1.2–1.3 ltr water : 5 kg Sopro DF 10®;
0.24–0.26 ltr water : 1 kg Sopro DF 10®

Enhancement with Sopro glitter:

2.6–2.8 ltr water : 10 kg Sopro DF 10® : max. 4 bags of Sopro gold or silver glitter
1.3–1.4 ltr water : 5 kg Sopro DF 10® : max. 2 bags of Sopro gold or silver glitter
0.26–0.28 ltr water : 1 kg Sopro DF 10® : max. 40 g Sopro gold or silver glitter

Intensive colours: signal red, wine red, deep blue

1.05–1.15 ltr water : 5 kg Sopro DF 10®

Enhancement with Sopro glitter:

1.2–1.35 ltr water : 5 kg Sopro DF 10® : 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

After approx. 12 hours

Application temperature

Between +5 °C and max. +25 °C

* Compared to standard Sopro cementitious tile grouts for domestic applications.

** Applies for all Sopro DF 10® grout colours except signal red, wine red and deep blue.

*** Based on DGNB (German Sustainable Building Council) criterion „ENV1.2 Local Environmental Impact“ (as at 31.07.2013).

Joint width

1–10 mm

Coverage0.3 kg/m² for 30×60 cm tiles, 10 mm joint depth and approx. 4 mm joint width; approx. 0.15 kg/m² for 60×60 cm tiles, 10 mm joint depth and approx. 3 mm joint width**Shelf life**

Approx. 24 months, subject to storage on pallet in dry conditions in original unopened containers

Packaging

10 kg bucket (silver grey, grey, concrete grey, sand grey, anthracite, black), 5 kg bucket, 1 kg bucket (only available in box with Nr 6), glitter: 100 g bag (only available in box with Nr 10)

Properties

Strong, flexible, rapid-set, cementitious tile grout, meeting CG2 WA requirements to DIN EN 13888, for grouting all types of ceramic and natural stone coverings to produce brilliantly coloured, lime-film-free finish.

Enhanced protection against mould formation and microorganisms plus lime-film-free finish ensure brilliantly coloured joint pattern with lasting appeal, for both indoor and outdoor applications, and especially in moisture-exposed areas. Inherent water-beading effect and Hydrodur® technology create water- and dirt-repellent joints.

Sopro gold or silver glitter can be added to create distinctive, glistening joint finish.

Application

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!).

Fill clean mixing container with 1.2–1.3 ltr (1.05–1.15 ltr for intensive colours) clean mains water for 5 kg dry powder (2.4–2.6 litres for 10 kg DF 10® and 0.24–0.26 litres for 1 kg DF 10®), add correct proportion of grout and mix mechanically using mixing attachment to produce homogeneous, creamy mortar. After 3–5 minutes maturing time, remix thoroughly. **Observance of required maturing time is essential!**

Enhancement with Sopro glitter: Fill clean mixing container with 1.3–1.4 ltr (1.2–1.35 ltr for intensive colours) clean mains water for 5 kg dry powder (2.6–2.8 litres for 10 kg DF 10® and 0.26–0.28 litres for 1 kg DF 10®), add correct proportion of grout and mix mechanically using mixing attachment to produce homogeneous, creamy mortar. While mixing, slowly add up to max. 2 bags (each containing 100 g) of Sopro gold glitter or Sopro silver glitter as required (10 kg DF 10®: max. 4 bags; 1 kg DF 10®: max. 40 g). After 3–5 minutes maturing time, remix thoroughly. Observance of required maturing time is essential! Consistency and colour of grout may change due to addition of glitter. Trial grouting with required quantity of glitter is recommended.

Grout clean, raked-out joints, which may require slight pre-wetting depending on thickness and suction of tile body, with Sopro DF 10® 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.

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. Where absorbent ceramics (earthenware) are used, it is helpful to adequately pre-wet tile surface, especially joints that are still open, prior to grouting. Rewetting of grouted surface with clean water – e.g. by spraying with fine water mist (spray bottle) or dampening with sponge – is also recommended a few hours after tile grout has set. This improves hardening process of Sopro DF 10® and ensures achievement of brilliantly coloured, hardwearing joints that offer supreme performance.

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.

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 tile grout 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.

Powder for intensive colours is greyish-white in colour. Tile grout only takes on relevant intensive colour after mixing with water.

For maximum colour uniformity, particularly with the 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.

Ensure that floor joints grouted with Sopro DF 10® and Sopro glitter are cleaned regularly. Dirt and incrustations on joints may impair glitter effect. Sopro glitter can also be blended with Sopro DF 20 flexible wide-joint designer tile grout, Sopro TF+ high-strength tile grout, Sopro FL floor flexible floor tile grout, Sopro FEP plus epoxy tile grout or Sopro Topas DFE designer epoxy tile grout.

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.

Where Sopro DF 10® intensive colours (signal red, wine red and deep blue) are used, take suitable measures to protect adjoining, discoloration-sensitive elements/components, e.g. wood, plastics windows and doors, sanitary appliances etc., against infiltration of tile grout. Masking of these elements/components with suitable adhesive tape is recommended.

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 tiabendazole 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.

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

** Applies for all Sopro DF 10® grout colours except signal red, wine red and deep blue.

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. The latest version of this product information as well as the relevant safety data sheet to EC Regulation No. 1907/2006 are available at www.sopro.com!

Application of 5 kg Sopro DF 10® flexible designer tile grout



1 Fill clean bucket with 1.2–1.3 ltr* clean mains water.



2 Add 5 kg bucket of Sopro DF 10® and mix mechanically.



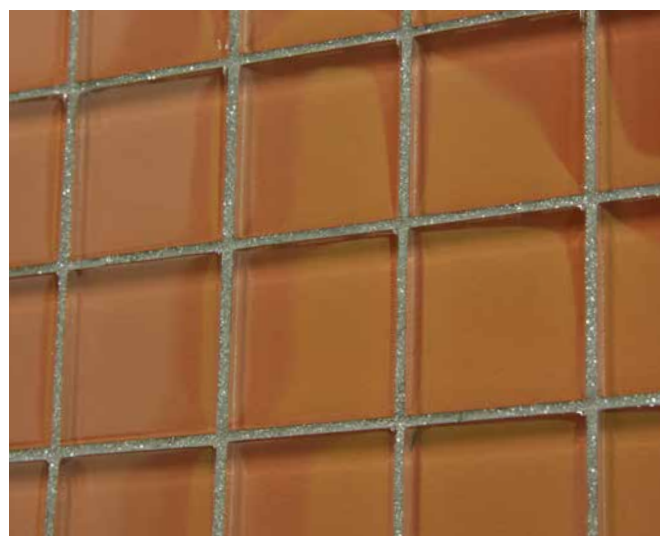
3 If required, up to 2 bags* of Sopro glitter may be added to grout during mixing. If glitter is added, increase proportion of water to 1.3–1.4 ltr*.



4 Grouting of glass mosaic using Sopro DF 10® with Sopro silver glitter.



5 Allow adequate drying time for tile grout, then wash down glass mosaic.



6 Visually appealing glass mosaic surface grouted with Sopro DF 10® and Sopro glitter.

* Different quantities apply when mixing 10 kg or 1 kg Sopro DF 10® and for intensive colours signal red, white red and deep blue.



7 Grouting of fully vitrified stoneware tiles with Sopro DF 10®.



8 Grouting of discoloration-sensitive natural stone with Sopro DF 10®.



9 Grouting of earthenware tiles with Sopro DF 10®.



10 Earthenware and natural stone mosaic surfaces grouted with Sopro DF 10®.



11 Brilliantly coloured joint surfaces in bathroom.

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FOR MORE INFORMATION CONTACT:

Smet Building Products Ltd | 93A Belfast Road | Newry | BT34 1QH | Northern Ireland

T: +44 (0) 28 3026 6833 | F: +44 (0) 28 3026 7619 | E: info@smetbuildingproducts.com

www.smetbuildingproducts.com or www.smet.ie



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