

smet

Sopro FS 15 550

Floor-levelling compound, 2–150 mm



Universal, pumpable, self-levelling, rapid-set, cementitious surface filler with excellent flow properties. Applied in thick and thin coats to level out mineral substrates and produce smooth, plane, unbroken subfloor surfaces. Used as base for all types of floor covering, e.g. ceramic, natural stone, textile, elastic and parquet flooring. Castor chair resistant and suitable for use in conjunction with floor heating. Excellent workability and hardened mortar properties thanks to Sopro Mikrodur® technology. Excellent flow properties achieved by use of a superplasticizing admixture.

- For floors, indoors
- Coat thickness: 2–150 mm
- Quick-drying
- Long reactivatability: approx. 25 minutes
- Extra-low-stress and extra-low cracking susceptibility
- Compressive strength after 28 days: approx. 35 N/mm²
- Flexural tensile strength after 28 days: approx. 9 N/mm²
- Particularly suitable for slimline heating systems
- Long working life: 30–40 minutes
- Walkable/ready to receive ceramic covering: after 2 – 3 hours
- Pumpable
- Smooth and level for subsequent flooring installation
- Optimum thermal conductivity after 28 days: 1.1 W/mK
- Suitable Sopro perimeter insulation strip available
- Low-chromate to Regulation (EC) No 1907/2006, Annex XVII
- DGNB (German Sustainable Building Council): Top quality level 4, Line 8
- Recommended by Sentinel Haus Institut

Use

Floor-levelling compound for creation of smooth, unbroken surfaces to receive any flooring type, e.g. ceramic tiles, natural stone coverings, vinyl/LVT flooring, carpeting, parquet, linoleum and PVC.

Suitable substrates

Cement screeds, concrete and untreated concrete surfaces (min. 3 months old), existing tile, terrazzo, natural and cast stone coverings, magnesium oxychloride (magnesite) screeds and heated floor constructions. Calcium sulphate (anhydrite and self-levelling anhydrite) screeds in conjunction with Sopro MGR 637 multi-purpose primer or Sopro EPG 522 epoxy primer. Suitable for slimline floor heating systems⁴⁾

Coat thickness

2–150 mm²⁾

Mixing ratio

5.5–6.0 ltr water : 25 kg Sopro FS 15 550.
Take care to ensure exact proportioning of water.

Flow table value

26.5–27.5 cm (Vicat ring to DIN 1164; size: internal diameter 65 mm at top and 75 mm at bottom, height 40 mm; on suitable, dry, clean glass plate)

Thermal conductivity

After 28 days: 1.1 W/mK

Working life

30–40 minutes

Walkable

After 2–3 hours

¹⁾ See TKB (German Technical Committee for Construction Adhesives) data sheet 14 "Rapid-hardening cementitious screeds and cementitious screeds with screed admixtures" issued on 11 August 2015 by Industrierverband Klebstoffe e.V. (German Adhesives Industry Association).

²⁾ Up to 150 mm in bonded construction.

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

⁴⁾ Subject to prior consultation with Sopro Technical Service team (+ 49 611 1707–111).

Ready to receive floor covering

Ready to receive ceramics and cast stone after 2 – 3 hours; natural stone after 24 hours.

For elastic, textile, laminate, parquet and wood block floor coverings, maximum permissible moisture content ($\leq 1.8\%$ CM) shall be confirmed by CM measurement over full screed cross-section prior to flooring installation. Empirical values for achievement of this – in function of filler coat thickness, subject to application to dry substrate – are as follows:

2 – 5 mm coat thickness: after approx. 1 day

5–10 mm coat thickness: after approx. 2 – 3 days

10–25 mm coat thickness: after approx. 3 – 14 days

25–40 mm coat thickness: after approx. 14 – 21 days

Application temperature

Between +5 °C and max. +25 °C

Coverage

Approx. 1.6 kg/m² per mm coat thickness

Castor chair resistance

Suitable (for castors to EN 12529) upwards of min. 2 mm coat thickness

Shelf life

Approx. 6 months, subject to storage in original unopened containers

Packaging

25 kg bag

Properties

Sopro FS 15 550 is a self-levelling, rapid-set, cementitious surface filler compound for floor surfaces. Excellent workability and hardened mortar properties thanks to Sopro Mikrodur® technology.

Pumpable, castor chair resistant and suitable for floor heating systems. Excellent flow properties achieved by use of a superplasticizing admixture. Flexural tensile strength ≥ 9.0 N/mm².

Substrate preparation

Substrate shall be dry, strong, crack-free, dimensionally stable and free from adhesion-impairing substances (e.g. dust, oil, wax, release agent, efflorescence, laitance, paint, lacquer and varnish residue, old flooring adhesive residue). Fill any existing cracks in screed with structurally bonding Sopro GH 564 casting resin or Sopro SH 649 shaken resin.

Cement screeds shall be 28 days old and dry. Screeds incorporating Sopro Rapidur® B1 turbo rapid-set binder are ready for tiling after only 6–12 hours (depending on mixing ratio). Cement screeds incorporating heating elements shall be heated up to ensure adequate drying out ($\leq 2.0\%$ CM).

Incorporate a suitable Sopro perimeter insulation strip at junctions with vertical elements to prevent restraint and escape of self-levelling compound. Where perimeter insulation strips are already incorporated in substrate, adopt same line and width of these strips.

Calcium sulphate screeds require pretreatment with Sopro MGR 637 multi-purpose primer or Sopro EPG 522 epoxy primer. Alternatively, use of Sopro AFS 561 anhydrite floor-levelling compound is recommended. Use of Sopro AFS 561 is always recommended on mastic asphalt screeds.

Assessment of substrate shall comply with relevant standards and regulations.

Priming

Sopro HE 449 bonding emulsion: For wet-on-wet application after short flash-off time of 10–15 minutes (max. 30 minutes). No liquid Sopro HE 449 shall remain on surface. Any dried films shall be removed. Suitable substrates include: cement screeds, unfinished concrete surfaces (min. 3 months old); existing ceramic, terrazzo, natural and cast stone coverings, existing firmly adhering screed coatings.

Sopro GD 749 primer: All mineral, high- or variable-suction substrates, e.g. cement screeds, concrete and unfinished concrete surfaces (min. 3 months old), and board subfloors. Sopro GD 749 primer shall be applied in undiluted form.

Sopro HPS 673 bonding primer: All smooth, non-absorbent substrates, e.g. existing ceramic, terrazzo, natural and cast stone coverings or firmly adhering adhesive residue.

Sopro MGR 637 multi-purpose primer/Sopro EPG 522 epoxy primer: Calcium sulphate (anhydrite and self-levelling anhydrite) screeds.

Application

Fill clean container with 5.5–6.0 ltr water, add 25 kg Sopro FS 15 550 and mix mechanically to homogeneous, lump-free consistency. Pour mixed compound onto prepared substrate and spread uniformly using squeegee or finishing trowel. Depending on coat thickness, use spiked roller or other suitable tools, e.g. screeding rod, to release air from freshly applied filler and ensure bubble-free surface.

Wherever possible, levelling compound shall be applied to required thickness in a single coat. If, in specific cases, application in several coats proves necessary, each coat shall be given adequate time to achieve walkability and be pretreated with Sopro HE 449 bonding emulsion prior to application of following coat.

In case of low humidity and high room temperature, draughts and direct exposure to sunlight, freshly applied coat shall be covered with sheeting to ensure optimum, crack-free curing.

For greater efficiency, use of a suitable mixing pump is recommended for coat thicknesses exceeding 20 mm.

In damp and wet spaces, filler-coated surfaces shall be waterproofed with Sopro FDF flexible sealing compound, Sopro DSF 523 one-component flexible sealing slurry, Sopro DSF 623 one-component flexible rapid-set sealing slurry, Sopro DSF 423 two-component flexible sealing slurry or Sopro TDS 823 two-component turbo sealing slurry.

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, squeegee, finishing trowel, mixing pump, spiked roller; 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

Labelling in accordance with Regulation (EC) No 1272/2008 (CLP)

GHS05

Signal word: Danger

Hazard-determining components: Contains Portland cement. 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.

Hazard statements: H318 Causes serious eye damage.

Precautionary statements: 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 and soap. 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.

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

Disposal



Waste treatment methods.Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of hardened product (EC waste code) : 17 01 01

Disposal of not hardened product (EC waste code) : 17 01 01

The suggested European waste code is just based on the composition of the product. According to the specific process or application field a different waste code may be necessary.

CE marking

 1488	 Sopro Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
	10 CPR-DE3/0550.1.eng EN 13813:2002 CT-C35-F7 Sopro FS 15 550 Cementitious screed material for internal use
Reaction to fire	Class A2 _{fl} -s1
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C35
Flexural strength	F7
Wear resistance	NPD
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD
Release of dangerous substances	see SDS

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