

## Sopro FS 15<sup>®</sup> plus Levelling Compound 2 - 150 mm

A universal, pumpable, self-levelling, rapid-set, cementitious surface filler compound with excellent flow properties achieved by use of superplasticizing admixture. Excellent workability and hardened mortar properties thanks to Sopro Mikrodur<sup>®</sup> technology. Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- For 2–150 mm coat thicknesses<sup>1)</sup>
- Self-levelling
- Rapid-setting
- Ready to receive ceramic covering after only 2–3 hours
- Long reactivatability: approx. 25 minutes
- Pumpable
- Extra-low-stress and extra-low cracking susceptibility
- Smooth and level for subsequent flooring installation
- Suitable for floor heating systems and, in particular, for slimline heating systems
- Excellent thermal conductivity
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> R ("very-low-emission-plus") rating
- DGNB (German Sustainable Building Council): Top quality level 4, Line 8<sup>2)</sup>
- For indoor use

### Field Of Application

Sopro FS 15<sup>®</sup> plus is a 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 unfinished concrete surfaces (min. 3 months old), existing tile, terrazzo, natural and cast stone coverings, magnesium oxychloride (magnesite) screeds and board subfloors, 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 systems<sup>3)</sup>

### 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<sup>®</sup> technology. Pumpable, castor chair resistant and suitable for floor heating systems. Excellent flow properties achieved by use of a superplasticizing admixture. Flexural tensile strength  $\geq 9.0$  N/mm<sup>2</sup>.

### Substrate Preparation

Substrate must 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 must be 28 days old and dry. Screeds incorporating Sopro Rapidur<sup>®</sup> B1 turbo rapid-set binder are ready for tiling after only 6–12 hours (depending on mixing ratio). Cement screeds incorporating heating elements should 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 substratemust always comply with relevant standards and regulations.

### Priming

**Sopro HE 449 bonding emulsion:** for wet-on-wet application after a short evaporation time of approx. 10 – 15 minutes (max. 30 minutes). No liquid Sopro HE 449 bonding emulsion should remain on the surface. Any dried films should be removed. Suitable substrates include: cement screeds, untreated 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 untreated concrete surfaces (min. 3 months old) and board subfloors. Sopro GD 749 primer should 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.

1) Up to 150 mm in bonded construction.

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

3) Subject to prior consultation with Smet Technical Service +44 (0)28 3026 6833.

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### Application

Fill a clean container with 5.5–6.0 ltr water, add 25 kg Sopro FS15 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.

### Licence

**EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation):** EC<sup>1PLUS</sup> R ('very-low-emission-plus')rating.

### Storage

Approx. 6 months, subject to storage on pallet in dry conditions in original unopened containers.

### Disposal Considerations

Waste treatment methods: Recover if possible. 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.

### Safety

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

#### GHS07

**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/chemical must be taken. See Sopro Material Safety Datasheet for further detailed safety information.

#### 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.

**P332+P313** If skin irritation occurs: Get medical advice/attention.


**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

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### Technical Information

Coat Thickness	2–150 mm <sup>1)</sup>
Mixing Ratio (water only)	5.5–6.0 ltr water : 25 kg Sopro FS 15 550. Take care to ensure exact proportioning of water
Flow table ratio	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 glassplate)
Thermal conductivity	After 28 days: 1.1 W/mK
Working Life	30 – 40 minutes
Walkable	After 2 – 3 hours
Coverage	Approx. 1.6 kg/m <sup>2</sup> per mm coat thickness
Ready to Receive Floor Covering	After 2–3 hours for ceramics; after 24 hours for natural stone finish; applicable maximum permissible moisture content ≤ 2.0% CM must, as a general requirement, be confirmed by CM measurement prior to flooring installation. Particularly impervious floor coverings, e.g. linoleum, PVC, parquet etc., can (depending on filler coat thickness) be applied at earliest: 2 – 5 mm coat thickness: after 1 day 5 – 10 mm coat thickness: after 2 – 3 days 10 – 25 mm coat thickness: after 3 – 14 days 25 – 40 mm coat thickness: after 14 – 21 days Applicable maximum permissible moisture content ≤ 1.8% CM must, as a general requirement, be confirmed by CM measurement prior to flooring installation.
Castor Chair Resistance	Suitable (for castors to EN 12 529) upwards of min. 2 mm coat thickness
Specified Times	Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.
Application Temperature	Between +5 °C and max. +25 °C
Tools & Cleaning	Mixing attachment, squeegee, finishing trowel, mixing pump, spiked roller; wash tools with water immediately after use.
Packaging	25 kg bag

	<p align="center"><b>Sopro Bauchemie GmbH</b>  <b>Biebricher Straße 74 · 65203 Wiesbaden (Germany)</b></p> <p align="center"><b>1488</b></p>
	<p align="center">10  CPR-DE3/0550.1.eng  EN 13 813:2002 CT-C35-F7  Sopro FS 15@ 550  Cementitious screed material for internal use</p>
<b>Reaction To Fire</b> <b>Release of corrosive substances</b> <b>Water permeability</b> <b>Water vapour permeability</b> <b>Compressive strength</b> <b>Flexural strength</b> <b>Wear resistance</b> <b>Sound insulation</b> <b>Sound absorption</b> <b>Thermal resistance</b> <b>Chemical resistance</b> <b>Release of dangerous substances</b>	<p align="right"> <b>Class A2<sub>n</sub> -s1</b>  <b>CT</b>  <b>NPD</b>  <b>NPD</b>  <b>C35</b>  <b>F7</b>  <b>NPD</b>  <b>NPD</b>  <b>NPD</b>  <b>NPD</b>  <b>NPD</b>  <b>See MSDS</b> </p>

NPD Properties not determined as they are not relevant (No Performance Determined)