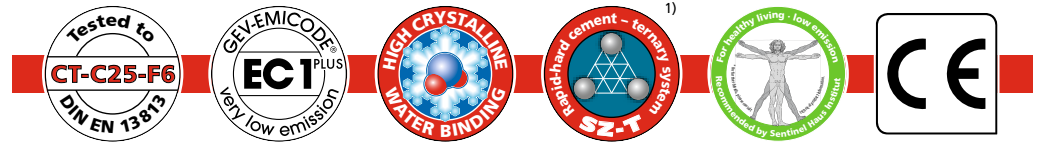


smet

# Sopro OFS 543

## Contract floor-levelling compound



Pumpable, flow-applied, self-levelling, rapid-set, cementitious surface filler for creation of smooth, unbroken surfaces prior to installation of all kinds of flooring. Suitable for floor heating systems.

- For floors, indoors
- Coat thickness: 3 – 25 mm
- Rapid drying, allowing early flooring installation on tightly scheduled contracts
- Compressive strength after 28 days: approx. 25 N/mm<sup>2</sup>
- Flexural tensile strength after 28 days: approx. 6 N/mm<sup>2</sup>
- Particularly suitable for slimline heating systems
- Long working life: 30 – 40 minutes
- Walkable: after 2–3 hours
- 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

For production of smooth, unbroken surfaces to receive any flooring type, e.g. ceramic tiles, natural stone coverings, textile, elastic and parquet flooring.

For coat thicknesses between 3 mm and max. 25 mm.

For indoor use only.

Sopro FS 5 549 floor-levelling compound is recommended for thin-coat ( $\leq 3$  mm) applications; recommended products for coat thicknesses  $\geq 25$  mm are Sopro FS 15 550 floor-levelling compound or Sopro Rapidur® FE 678 self-levelling screed.

### Suitable substrates

Cement screeds, concrete and untreated concrete surfaces (min. 3 months old), heated floor constructions (cement and calcium sulphate screeds), existing ceramic, terrazzo, natural stone and cast stone coverings; magnesium oxychloride (magnesite) screeds

### Coat thickness

3–25 mm

### Mixing ratio

5.5–6.0 ltr water : 25 kg Sopro OFS 543; 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)

### Working life

30–40 minutes

### Walkable

After 2–3 hours

### Ready to receive floor covering

For 25 mm coat thickness, ready to receive ceramics and cast stone after approx. 12 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:

- 3–5 mm coat thickness: after approx. 1 day
- 5–10 mm coat thickness: after approx. 3 days
- 10–25 mm coat thickness: after approx. 14 days

### Application temperature

From +5 °C to +30 °C (substrate, air, material)

### Castor chair resistance

Suitable (for castors to EN 12529) upwards of min. 3 mm coat thickness

### Coverage

Approx. 1.6 kg/m<sup>2</sup> per mm coat thickness

<sup>1</sup> 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 Industrieverband Klebstoffe e.V. (German Adhesives Industry Association).

<sup>2</sup> Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (2015 version).

### Shelf life

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

### Packaging

25 kg bag

### Properties

Sopro OFS 543 is a pumpable, castor chair resistant, self-levelling, rapid-set, cementitious floor filler, suitable for interiors and for use in conjunction with floor heating.

### 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.

Cement screeds shall be 28 days old and dry. Screeds incorporating Sopro Rapidur® B1 rapid-set binder are ready to receive floor covering after only approx. 12 hours. 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, 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). Sopro GD 749 primer shall be applied in undiluted form.

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

**Sopro MGR 637 multi-purpose primer:** Moisture-sensitive substrates, e.g. magnesium oxychloride (magnesite) screeds and calcium sulphate (anhydrite and self-levelling anhydrite) screeds.

### Application

Fill clean container with 5.5–6.0 ltr water, add 25 kg Sopro OFS 543 and mix mechanically to homogeneous, lump-free consistency. Pour mixed compound onto prepared substrate and spread uniformly using squeegee or finishing trowel. A spiked roller may be used to release entrapped air from freshly applied levelling compound.

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 treatment of large areas, Sopro OFS 543 may be efficiently prepared and applied using mixing pump equipment.

Particularly impervious floor coverings, e.g. parquet, linoleum, PVC etc., shall be laid at earliest after approx. 1 day (depending on coat thickness) and after achievement of residual moisture content  $\leq 1.8\%$  CM.

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 (e.g. Putzknecht S 48 or Putzmeister G 78), 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<sup>PLUS</sup> ("very-low-emission-plus") rating

## Safety precautions

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

GHS07

**Signal word:** Caution

**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:** H319 Causes serious eye irritation.

**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. 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

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.

## CE marking

 1488	 Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
	10 CPR-DE3/0543.2.eng EN 13813 CT-C25-F6 Sopro OFS 543 Cementitious screed material for internal use Internal floors
Reaction to fire	Class A1 <sub>n</sub>
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C25
Flexural strength	F6
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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