



Sopro VS 582

Self-levelling filler



Flexible, self-levelling, mouldable, rapid-set, cementitious, fibre-reinforced surface filler, with 2-in-1 formulation for simultaneous levelling and creation of falls. Excellent workability and mouldability through flexible addition of water.

- 3–70 mm coat thickness²⁾
- For floors, indoors and outdoors³⁾
- 2-in-1 formulation: suitable as self-levelling filler and for laying to falls
- Compressive strength after 28 days: approx. 35 N/mm² (as levelling coat laid to falls)
- Flexural tensile strength after 28 days: approx. 7 N/mm² (as levelling coat laid to falls)
- Self-levelling
- Outstanding mouldability when laid to falls
- Quick-drying
- Flexible, fibre-reinforced
- Pumpable
- Suitable for timber flooring
- Suitable for floor heating systems
- Long working life: 30–40 minutes
- Walkable after 2–3 hours

Use

For use as either self-levelling surface filler or filler coat laid to falls through adjustment of consistency. For production of unbroken surfaces suitable for receiving any flooring type, e.g. ceramic coverings, natural stone finishes, textile, elastic and parquet flooring. Also suitable for smooth application of levelling coats to falls of up to 4% in damp and wet spaces, on balconies and patios etc. Ideally prepared, blowhole-free substrate for subsequent application of waterproof membranes. For indoor and outdoor use.

Suitable substrates

Cement screeds, concrete and untreated concrete surfaces (min. 3 months old), existing ceramic, natural stone and terrazzo coverings, timber, magnesium oxychloride (magnesite) screeds and calcium sulphate screeds

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:

Consistency for laying to falls	Self-levelling consistency
3–5 mm coat thickness: after approx. 1 day	3–5 mm coat thickness: after approx. 1 day
5–10 mm coat thickness: after approx. 3 days	5–10 mm coat thickness: after approx. 3 days
10–25 mm coat thickness: after approx. 7 days	10–25 mm coat thickness: after approx. 9 days
25–40 mm coat thickness: after approx. 14 days	25–40 mm coat thickness: after approx. 21 days

Coat thicknesses

3–70 mm²⁾

Mixing ratio

As self-levelling filler: 4.75–5.25 ltr water
As levelling coat laid to falls: 3.5–4.0 ltr water

Strength class

As levelling coat laid to falls: CT-C35-F7.
Lower strength values, i.e. approx. CT-C25-F5, are achieved for application as self-levelling filler due to higher mixing water requirement.

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 Industrieverband Klebstoffe e.V. (German Adhesives Industry Association).

²⁾ Up to 70 mm in bonded construction.

³⁾ In outdoor areas, filler-coated surfaces shall be waterproofed with suitable membrane (e.g. Sopro TDS 823, Sopro DSF 423/523, Sopro AEB plus 639). Outdoors, Sopro VS 582 is only suitable for production of finished surfaces when used in conjunction with SoproDur® HF-L 513 high-strength epoxy protective coat and silica sand (for adequate slip resistance).

Flow table value	As self-levelling filler, 24.0–25.0 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
Application temperature	Between +5°C and max. +25°C
Coverage	Approx. 1.7 kg/m ² per mm coat thickness
Castor chair resistance	Suitable (for castors to EN 12 529) upwards of min. 3 mm coat thickness
Shelf life	Approx. 12 months, subject to storage in original unopened containers
Packaging	25 kg bag
Substrate preparation	<p>Substrate shall be clean, solid, strong, 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). Any existing cracks in screed shall be filled with 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 screed binder are ready to receive floor covering after only approx. 6–12 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. Timber substrates shall be permanently dry, rear-ventilated, firmly screwed down and unsusceptible to deformation. Additionally secure where necessary. Use of 4/7/9/12 mm Sopro FDP 558 tile insulation board is recommended for timber substrates after filler application up to 20 mm (see Sopro FDP 558 product information). This significantly improves rigidity and impact sound insulation. Alternatively, for coat thicknesses from 10 mm, use of Sopro PG-X 1188 armour scrim eXtra or Sopro S-TEX 568 floor-levelling compound scrim, as specified in technical product information, is recommended. When applied in conjunction with SoproTEX 568, Sopro VS 582 shall be prepared with addition of maximum amount of water. Sopro VS 582 can be applied in coat thicknesses from 20 mm without separating layout. Following covering is then installed on Sopro FDP 558 tile insulation board. 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.</p>
Priming	<p>Sopro HE 449 bonding emulsion: For cement screeds, untreated concrete surfaces (min. 3 months old), existing ceramic, terrazzo, natural and cast stone coverings, or firmly adhering screed coatings. For wet-on-wet application after a short flash-off time of 10–15 minutes (max. 30 minutes). No liquid Sopro HE 449 shall remain on surface. Films that have already dried shall be removed by sanding.</p> <p>Sopro GD 749 primer: For all mineral, high- or variable-suction substrates, e.g. cement screeds and concrete. Apply in undiluted form.</p> <p>Sopro HPS 673 bonding primer: For all smooth, non-absorbent substrates, e.g. existing ceramic, terrazzo, natural and cast stone coverings, or firmly adhering adhesive residue.</p> <p>Sopro MGR 637 multi-purpose primer/Sopro EPG 522 epoxy primer blinded with Sopro QS 511 coarse silica sand: For calcium sulphate (anhydrite and self-levelling anhydrite) screeds.</p>

Application

Add 25 kg Sopro VS 582 to 4.75–5.25 ltr water and mix mechanically to homogeneous, creamy, lump-free consistency. Pour onto floor and spread uniformly using squeegee or finishing trowel, wherever possible in single operation. 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. Protect freshly applied material from draughts and sunshine. To provide surfaces with falls, reduce water quantity to 3.5–4.0 ltr for 25 kg Sopro VS 582. Wherever possible, apply material to required thickness in a single coat. In damp and wet spaces, filler-coated surfaces shall be waterproofed, e.g. using Sopro FDF flexible sealing compound (indoors only), Sopro DSF flexible sealing slurry or Sopro TDS 823 two-component turbo sealing slurry. Use of a suitable pump is recommended for application of larger quantities. Scuff sanding of surface is not normally necessary as adjustable consistency of Sopro VS 582 allows production of unbroken surfaces.

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.

Classification report

MPA Dresden GmbH (Materials Test Institute Dresden):
Reaction to fire to DIN EN 13 501-1: A2_n-s1

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)
GHS 07

Signal word: Warning

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. **P102** Keep out of reach of children. **P261** Avoid breathing dust. **P280** Wear protective clothing/eye protection/face protection.

Precautionary statements: **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

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

 0767	 Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
16 CPR-DE3/0582.3.eng EN 13813 CT-C35-F7 Sopro VS 582 Cementitious screed material for internal use Internal floors	
Reaction to fire	Class A2 _n -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
Sound absorption	NPD
Chemical resistance	NPD
Release of dangerous substances	see SDS

Application of Sopro VS 582 as self-levelling filler



1 Pour Sopro VS 582 in self-levelling consistency with maximum amount of water added (4.75–5.25 ltr).



2 Smooth and easy spreading of self-levelling filler. Release of entrapped air using spiked roller is required immediately after application.

Sopro VS 582 applied as levelling coat to falls with medium water addition (3.75 ltr)



1 Pour Sopro VS 582 in sag-resistant consistency as levelling coat laid to falls with medium amount of water added (3.75 ltr).



2 Create falls by spreading levelling coat over surface with trowel. Creation of falls with max. 4% gradient feasible.



3 Creation of falls by ruling off with straightedge.

Sopro VS 582 applied as levelling coat to falls with maximum water addition (4.00 ltr)



1 Pour Sopro VS 582 in consistency necessary to falls with maximum amount of water added (4.0 ltr).



2 Create falls by spreading levelling coat with straightedge.



3 Self-healing effect due to self-compaction of material ...



4 ... thus eliminating trowel marks and blowholes.



5 Falls created for run-off to drain.



6 Sopro VS 582 in dry condition.

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