

smet

Sopro SLC 578

Self-levelling compound, 3–40 mm



Rapid-set, self-levelling, cementitious filler for production of smooth, unbroken surfaces prior to flooring installation.

Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- For 3–40 mm coat thicknesses
- Pumpable
- Suitable for floor heating systems
- For indoor use

Use

For production of smooth, unbroken surfaces prior to installation of floor coverings, e.g. ceramic tiles, natural stone finishes, textile, elastic and parquet flooring. For coat thicknesses between min. 3 mm and max. 40 mm; for indoor use only.

Sopro FS 5 549 floor-levelling compound is recommended for thin-coat (≤ 3 mm) applications; Sopro FE 678 Rapidur® self-levelling screed is recommended for coat thicknesses > 40 mm.

Suitable substrates

Cement screeds, concrete and untreated concrete surfaces (min. 3 months old), heated floor constructions (cement and calcium sulphate screeds), magnesium oxychloride (magnesite) screeds.

Coat thickness

3–40 mm

Mixing ratio

5.25–5.75 ltr water : 25 kg Sopro SLC 578;
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

After approx. 24 hours for 3–15 mm coat thickness where tiles are to be installed; after approx. 24 hours per cm for greater coat thickness or where carpeting, parquet etc. is to be installed

Application temperature

From +5 °C to +25 °C (substrate, air, material)

Coverage

Approx. 1.6 kg/m² per mm coat thickness

Shelf life

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

Packaging

25 kg bag

Properties

Sopro SLC 578 is a pumpable, self-levelling, rapid-set, cementitious surface filler, suitable for interiors only 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 at least 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) prior to flooring installation.

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.

Sopro AFS 561 anhydrite floor-levelling compound is recommended for calcium sulphate and 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). Sopro HE 449 shall be applied so as to form a shiny damp film, without ponding. Any dried films shall be removed. Suitable substrates include: cement screeds, untreated concrete surfaces (min. 3 months old)

Sopro GD 749 primer: All absorbent substrates, e.g. cement screeds, concrete/untreated concrete surfaces (min. 3 months old). Sopro GD 749 primer shall be applied in undiluted form

Sopro HPS 673 special 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 5.25–5.75 ltr water, add 25 kg Sopro SLC 578 and mix mechanically to homogeneous, lump-free consistency. Restir thoroughly after short maturing time. Then pour mixed self-levelling compound onto prepared substrate and spread uniformly using squeegee or finishing trowel. A spiked roller may be used to release entrapped air from self-levelling compound while still fresh.

Apply material 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 setting.

For treatment of large areas, Sopro SLC 578 may also be efficiently prepared and applied using suitable mixing pump equipment.

Particularly impervious floor coverings, e.g. parquet, linoleum, PVC etc., shall be laid at earliest after approx. 1 day (1 cm coat thickness) or after approx. 36 hours for maximum coat thickness of 15 mm, 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, Sopro TDS 823 two-component turbo sealing slurry, Sopro PU-FD surface sealant or Sopro AEB® membrane system.

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) : 170101. 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.

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^{PLUS} ("very-low-emission-plus") rating

Safety precautions

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

GHS07

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.

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

CE marking

 0767	 Sopro Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
	14 CPR-DE3/0578.1.eng EN 13813:2002 CT-C20-F5 Sopro SLC 578 Cementitious screed material for internal use
Reaction to fire	Class A1 _n
Release of corrosive substances	CT
Water permeability	NPD
Water vapour permeability	NPD
Compressive strength	C20
Flexural strength	F5
Wear resistance	NPD
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD
Dangerous substances	see SDS

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