

## Sopro SLC 578 - Self Levelling Compound 3-40 mm

Sopro SLC 578 is a pumpable, self-levelling, rapid-set, cementitious surface filler, for use in conjunction with floor heating internally. Used for the 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. (Sopro FS 5 549 floor-levelling compound is recommended for thin-coat ( $\leq 3$  mm) applications; Sopro FE 678 Rapidur® self-levelling screed is recommended for coat thicknesses  $> 40$  mm.) 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 only

### 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.

### Substrate Preparation

Substrate should 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 structural bonding Sopro GH 564 casting resin. Cement screeds must 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 should 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 must 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 should be applied so as to form a shiny damp film, without ponding. Any dried films should 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 should 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 should 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 should 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., should 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 should 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.

### 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) : 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.

### Safety

**Labelling** See Sopro MSDS for further information. 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 should 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.

**Licence: EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation):** EC1PLUS (“very-low-emission-plus”) rating

### Technical Information

Coat Thickness	3 - 40 mm.
Mixing Ratio (water only)	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)
Pot Life	30 - 40 minutes
Walkable	After 2 - 3 hours
Coverage	Approx. 1.6 kg/m <sup>2</sup> per mm coat thickness
Ready to Recieve 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)
Specified Times	Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.
Packaging	25 kg Bag
Tools and 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.

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	14 CPR-DE3/0578.1.eng EN 13 813:2002 CT-C20-F5 Sopro Self Levelling Compound SLC 578 Cementitious screed material for internal use
Reaction to fire Release of corrosive substances Water permeability Water vapour permeability Compressive strength Flexural strength Wear resistance Sound insulation Sound absorption Thermal insulation Chemical resistance Dangerous Substances	Class A1fl CT NPD NPD C20 F5 NPD NPD NPD NPD NPD NPD See MSDS



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



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