

**smet**

# Sopro SC 809

## White tile adhesive



White, cementitious thin-bed adhesive for installation of ceramic wall and floor coverings and discoloration-resistant natural stone finishes.  
Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- Meets C2TE requirements to DIN EN 12004
- White
- Flexible
- For discoloration-resistant natural stone
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> ("very-low-emission-plus") rating
- DGNB (German Sustainable Building Council): Top quality level 4, Line 7<sup>1)</sup>
- For walls and floors
- For indoor and outdoor use

### Use

Wall and floor tile products: earthenware, stoneware and fully vitrified stoneware tiles, ceramic split tiles and split tile fittings, clinker floor tiles, cast stone units, discoloration-resistant natural stone units.

Use of Sopro MFK 446 flexible adhesive for marble tiles is recommended for particularly discoloration-sensitive natural stone, e.g. crystalline marble (Carrara Bianco, Thassos etc.).

Sopro's No.1 white rapid-set flexible tile adhesive is recommended for laying glass mosaic coverings.

### Suitable substrates

Concrete (min. 3 months old), lightweight concrete (min. 6 months old); cement and eminently hydraulic lime renders; renders made from masonry cement; plane, flush-jointed masonry (no composite masonry); paperless gypsum, gypsum plasterboard and gypsum fibreboard drywall panels; calcium sulphate (anhydrite) screeds; board subfloors; cement screeds; heated wall and floor constructions; existing ceramic coverings; gypsum plaster; rigid foam board; mastic asphalt screeds (indoors).

### Mixing ratio

8.5–9.0 ltr water : 25 kg Sopro SC 809

### Coat thickness

Max. 5 mm in compacted adhesive bed

### Maturing time

3–5 minutes

### Working life

3–4 hours; stiffened mortar shall not be retempered by addition of water or fresh mortar to restore workability.

### Open time

Approx. 30 minutes

### Walkable / groutable

After approx. 24 hours or after setting of adhesive; take measures to spread loads over floor. Use of a rapid-set Sopro thin-bed tile adhesive, e.g. Sopro's No.1 997 white rapid-set, is recommended for outdoor areas during cold season.

### Loadable

After approx. 3 days; in commercial facilities after approx. 28 days, in areas subject to high wet exposure after approx. 21 days, for underwater applications after approx. 28 days, in conjunction with wall and floor heating after approx. 21 days

### Application temperature

Between +5°C and max. +30°C

### Coverage

Approx. 1.2 kg/m<sup>2</sup> per mm coat thickness

### Shelf life

Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers

### Packaging

25 kg bag

<sup>1)</sup> Based on DGNB (German Sustainable Building Council) criterion "ENV1.2 Local Environmental Impact" (as at 31.07.2013).

## Properties

Excellent contact adhesion, high sag resistance and high water retentivity, resistant to water and freeze-thaw cycles, very smooth workability, high coverage, long open time.

## Substrate preparation

Substrate shall be dry, clean, solid, strong, level, dimensionally stable and free from any adhesion-impairing substances. Any existing cracks in screed shall be filled with structurally bonding Sopro GH 564 casting resin. Level out any gross irregularities with Sopro RAM 3 454 renovation and levelling mortar, Sopro RS 462 repair filler, Sopro SP 466 lightweight levelling mortar or Sopro AMT 468 levelling mortar with trass; for floors, use Sopro FS 15 550 floor-levelling compound or Sopro FAS 551 fibre-reinforced self-levelling filler.

Cement screeds shall be 28 days old and dry ( $\leq 2.0\%$  CM). Use of Sopro rapid-set screed systems (Sopro Rapidur® B1, B5, M1, M5) allows tilelaying to commence after only short waiting time. (Please consult relevant product information.) Calcium sulphate screeds shall exhibit a moisture content  $\leq 0.5\%$  CM and be adequately ground, vacuum-cleaned and primed.

Timber substrates shall be covered with Sopro FDP 558 tile insulation board prior to tilelaying. Mastic asphalt screeds shall be blinded with sand.

Cement and calcium sulphate screeds incorporating heating elements shall be heated up to ensure adequate drying out prior to flooring installation: required moisture content for cement screeds  $\leq 2.0\%$  CM, for calcium sulphate screeds  $\leq 0.3\%$  CM.

All relevant standards, guidelines and recommendations shall apply; workmanship shall comply with good practice.

## Priming

**Sopro GD 749 primer:** Calcium sulphate (anhydrite and self-levelling anhydrite) screeds to receive tiles of size not exceeding 0.2 m<sup>2</sup>, paperless gypsum wall panels, gypsum plasterboard/joints and filler, gypsum fibreboard, gypsum plaster, high- or variable-suction (interior) aerated concrete, lime/cement render, renders made from masonry cement, flush-jointed masonry.

**Sopro SG 602 primer-sealer:** Cement render, lime/cement render, gypsum plaster, homogeneous, flush-jointed masonry (no composite masonry), concrete, aerated concrete, paperless gypsum panels, gypsum plasterboard and gypsum fibreboard, cement screeds, calcium sulphate screeds (for laying tiles up to max. 1 m<sup>2</sup>). For ceramic tiles, natural stone and timber substrates insensitive to moisture. For large-format tiles (of size > 0.36 m<sup>2</sup>), use of rapid-set, rapid-drying bedding adhesives is recommended in conjunction with Sopro SG 602.

**Sopro HPS 673 bonding primer:** Smooth and closed-pore substrates, e.g. existing tile, terrazzo, natural and cast stone coverings, adhesive residue from PVC flooring or carpeting, oriented strand board and metal substrates (indoors).

**Sopro MGR 637 multi-purpose primer/Sopro EPG 522 epoxy primer:** Calcium sulphate (anhydrite and self-levelling anhydrite) screeds to receive tiles of size exceeding 0.2 m<sup>2</sup>.

## Application

Fill clean container with 8.5–9.0 ltr water, add 25 kg (1 bag) Sopro SC 809 and mix thoroughly to workable, lump-free consistency. After 3–5 minutes maturing time, remix thoroughly. Apply contact layer with finishing trowel, then apply combed bed with suitable notched trowel (tool angle 45°–60°). Apply only as much adhesive as can be covered by tiles during open time (approx. 30 minutes). Press tiles firmly into adhesive bed, position and align. Rake out joints prior to hardening and wash down covering.

## 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, notched trowel with suitable serration: 3–4 mm for tesserae, 4–6 mm for wall and floor tiles, 6–10 mm for heavy ceramics; wash tools with water immediately after use.

**Test certificates/licence**

**Technische Universität München: C2 TE to DIN EN 12 004**  
**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)

GHS05, GHS07

Signal word: Danger

Contains Portland cement. Contains calcium hydroxide. 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: H315** Causes skin irritation. **H318** Causes serious eye damage. **H335** May cause respiratory 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**

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.



Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

**CE marking**

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	05 CPR-DE3/0809.1.eng EN 12 004:2007 + A1:2012 Sopro SC 809  Improved cementitious adhesive for indoor and outdoor wall and floor tiling
Reaction to fire	Class E
Bond strength as:	
Tensile adhesion strength after dry storage	≥ 1.0 N/mm <sup>2</sup>
Durability of bond strength as:	
Tensile adhesion strength after water storage	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength after heat storage	≥ 1.0 N/mm <sup>2</sup>
Tensile adhesion strength after freeze-thaw cycles	≥ 1.0 N/mm <sup>2</sup>
Release of dangerous substances	See SDS

bringing european innovation

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