

## Sopro SC 809 Classic White Tile Adhesive

A white cementitious, flexible thin-bed adhesive for installation of ceramic wall and floor coverings and discoloration-resistant natural stone finishes. This tile adhesive meets C2 TE requirements to DIN EN 12 004, offers good workability and high sag resistance. Suitable for use in conjunction with floor heating, flexible brush-on waterproof coatings and fully vitrified stoneware. Low-chromate to Regulation (EC) No 1907/2006, Annex XVII.

- Meets C2 TE requirements to DIN EN 12 004
- CE Marked
- White
- Flexible
- For discoloration-resistant natural stone
- Extended open time  $\geq$  30 minutes
- Approx. 8 m<sup>2</sup> coverage per 25 kg bag
- EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> R ('very-low-emission-plus') rating
- DGNB (German Sustainable Building Council): Top-quality level 4, Line 7\*
- For walls and floors
- For indoor and outdoor use
- Low-chromate to Regulation 1907/2006/EC, Annex XVII

### Field Of Application

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 floor constructions; existing ceramic coverings; gypsum plaster; rigid foam board; mastic asphalt screeds (indoors).

### 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 should be dry, clean, solid, strong, level, dimensionally stable and free from any adhesion impairing substances. Any existing cracks in screed should 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, Sopro SP 770 rapid-set filler or Sopro AMT 468 levelling mortar with trass; for floors, use Sopro FS 15® plus floor-levelling compound, Sopro AFS 561 anhydrite floor-levelling compound or Sopro FAS 551 fibre-reinforced self-levelling filler. Cement screeds should be 28 days old and dry ( $\leq$  2.0% CM). Use of Sopro rapid-set screed systems (Sopro Rapidur® B1, B5, M1, M5) allows tile laying to commence after only short waiting time. (Please consult relevant product information.) Calcium sulphate screeds should exhibit a moisture content  $\leq$  0.5% CM and be adequately ground, vacuum-cleaned and primed. Timber substrates should be covered with Sopro FDP 558 tile insulation board prior to tile laying. Mastic asphalt screeds should be blinded with sand. Cement and calcium sulphate screeds incorporating heating elements must 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 apply; workmanship must comply with good practice.

\* Based on DGNB (German Sustainable Building Council) criterion 'ENV1.2 Local Environmental Impact' (as at 31.07.2013).

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### Priming

**Sopro GD 749 primer:** Calcium sulphate (anhydrite and self-levelling anhydrite) screeds to receive tiles with edge length not exceeding 60 cm and 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 HPS 673 special 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:** On calcium sulphate based (anhydrite and self-levelling anhydrite) screeds to receive tiles with edge length exceeding 60 cm or 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.

### Storage

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

### Test Certificates Licence

Available upon request. EMICODE system of GEV (German Association for Control of Emissions in Products for Flooring Installation): EC1<sup>PLUS</sup> R ('very-low-emission-plus') rating.

### 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.

### Safety

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/chemical are to be taken. See Sopro Material Safety Datasheet for further detailed safety information.

### Labelling

#### 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

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### Technical Information

Colour	White
Mixing Ratio (water only)	8.5 – 9.0 ltr water : 25 kg Sopro SC 809
Coat thickness	Max. 5 mm in compacted adhesive bed
Coverage	Approx. 1.2 kg/m <sup>2</sup> per mm coat thickness
Maturing Time	3-5 minutes
Pot Life	Approx. 3-4 hours; stiffened mortar should not be retempered by addition of water or fresh mortar to restore workability.
Open Time	Approx. 30 mins
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 white rapid-set, is recommended for outdoor areas during cold season.
Loading	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 floor heating - After approx. 28 days
Specified Times	Apply for normal temperature range of +23°C and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times
Application Temperature	Between +5°C and max. +30°C
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.
Packaging	25kg bag

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



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