



BUILDING TRUST



## PRODUCT DATA SHEET

# SUPRACOAT TILE ADHESIVE

Cementitious tile adhesive

### DESCRIPTION

SUPRACOAT TILE ADHESIVE is a cementitious tile adhesive for general purpose tiling work. It is suitable for fixing ceramics, natural stones and most monocottura tiles on interior walls and floors.

### USES

- Installation of tiles and natural stones onto concrete render, blockwork and rendered brickwork surface
- For walls and floors, indoor and outdoor

### FEATURES

- Easy to use with good workability
- Good adhesion to most substrates (concrete, cementitious mortar, stone, bricks, etc.)
- Compatible with Sikalastic®-1 KMY, SikaTop® Seal-107 (MY) and SikaTop® Seal-109 MY
- Can be used with Supracoat Supralatex-66 to increase performance of the adhesive

### PRODUCT INFORMATION

Packaging	25 kg bag
Appearance and colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Keep away from direct sunlight, rain, water and moisture.

### TECHNICAL INFORMATION

Tensile adhesion strength	Standard condition	$\geq 0.5 \text{ N/mm}^2$	(BS EN 1348:2007)
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### APPLICATION INFORMATION

Mixing ratio	6.0–6.5 L of water per 25 kg bag
Consumption	This depends on the level, profile and surface roughness of the substrate, the size of the tiles and the technique of placing (simple placing or "back"-buttering). As a guide, in kilogram of powder per $\text{m}^2$ on flat surfaces:

<u>Tiles size</u>	<u>Coverage</u>	<u>Trowel size</u>
Mosaics and small tiles	~2.0–3.0 kg/m <sup>2</sup>	3 mm × 3 mm notched trowel
Normal size tiles (30 cm × 30 cm)	~5.0–5.5 kg/m <sup>2</sup>	6 mm × 6 mm notched trowel
Large size tiles up to 3600 cm <sup>2</sup> (internal floors)	~10.0–11.0 kg/m <sup>2</sup>	12 mm × 12 mm notched trowel

The consumption above may only serve as a guide. It is highly recommended to carry-out trials on site to determine the actual coverage.

<b>Layer thickness</b>	3 mm min. / 10 mm max.	
<b>Ambient air temperature</b>	+5 °C min. / +40 °C max.	
<b>Substrate temperature</b>	+5 °C min. / +40 °C max.	
<b>Open Time</b>	Open time is approximately 20 minutes under normal temperature and humidity conditions. In unfavourable conditions, the open time may be shorter.	
<b>Applied product ready for use</b>	At 25 °C	
	Before jointing works	Min. 24 hours
	Before opening to light foot traffic	Min. 24 hours
	Before opening to full traffic	Min. 7 days
<b>Adjustability time</b>	~20 minutes (at +20 °C)	

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Cementitious substrates must be at least 1 month old.
- Do not exceed the recommended water dosage. Apply only to sound, prepared substrates. Do not exceed the maximum layer thicknesses.
- Protect freshly applied material from freezing conditions and rain etc.
- In cases whereby marble / granites are used, it is highly recommended that trials/mock-up with the actual marble / granite and SUPRACOAT TILE ADHESIVE be carried-out to determine the suitability of use.
- Do not attempt to dampen the applied adhesive to extend the open time as this interferes with the bonding performance.
- When use with Supracoat Supralatex-66, ensure all ratio of Supracoat Supralatex-66 to SUPRACOAT TILE ADHESIVE are consistent.
- In unfavourable ambient conditions, the “skinning” of the adhesive will occur after 5–10 minutes. Therefore, it is important that the tile adhesive is applied in a small areas that can be covered with tiles within this period of time.
- “Skinning” can be checked by placing the tip of your index finger lightly to the adhesive bed surface. If the adhesive does not stick to your finger, “skinning” has already occurred. To break the skin, re-towel the adhesive in the opposite direction.
- Fix stones / tiles / mosaics within 20 minutes of ap-

plying adhesive and check coverage by occasionally lifting the stones / tiles / mosaics.

- Generally, tiling heights are limited to 3 metres and the maximum weight capacity (tiles/stones + adhesive) should not exceed 32 kg/m<sup>2</sup>. If these limits are exceeded, additional support e.g. mechanical fixtures is highly recommended for safety purposes.
- Grouting should not be carried out for at least 24 hours after completion of tiling works.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Ensure all concrete slabs are allowed to cure fully and have a wood float finish.
- Newly rendered surfaces must be allowed to cure for at least 7 days, must be thoroughly cleaned and have a wood float finish.
- The maximum variation in the plane of the concrete, using a straightedge, must not exceed 5 mm in 3 m for floors and 4 mm in 2 m for walls.
- Steel trowel finished concrete surfaces must be mechanically abraded prior to commencement of tiling works. Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, curing compounds, release agents and any other loose or contaminating materials that may inhibit

bonding.

- Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filling of blowholes / voids, etc. must be carried out using appropriate products from the SikaTop® or Sika MonoTop® range of material. Allow a waiting time of 24–48 hours before commencing tiling works.
- Painted surface must be scabbled/abraded to expose the original substrate.
- All dust, loose and friable material must be completely removed from all surfaces before application of SUPRACOAT TILE ADHESIVE, preferably by brush and/or vacuum. If the substrate is very porous, and/or if the temperature is high and the relative humidity is low, it is advisable to pre-wet the surface (do not leave any standing water) or apply Sika® Primer-11 WMY. Please contact Sika local representative for further information on the recommended primer for the specific substrate.

## MIXING

Add SUPRACOAT TILE ADHESIVE to clean water. Mix continuously in circular motion using low-speed mechanical mixer until a lump-free, creamy consistency and uniform paste is achieved. Allow the mix to stand for 5 minutes and remix prior to use. Do not add additional water.

SUPRACOAT TILE ADHESIVE must be mechanically mixed using a forced action mixer or in a clean container using a drill and mixing paddle (< 500 rpm). A normal free fall concrete mixer is not suitable.

## APPLICATION

Spread the adhesive onto the substrate using either a 6 mm x 6 mm notched trowel for wall tiling, or a 12 mm x 12 mm notched trowel for flooring tiling. The choice of trowel should be governed by the size of the tiles, depth of knobs, grooves or ridges on the back of the tiles and the evenness of the substrate. Use the flat side of the notched trowel to spread the adhesive onto the receiving surface at approximately 1 m<sup>2</sup> at a time. Then, use the notched side of the trowel to determine the required height of the adhesive in one direction.

Press the tile in a perpendicular motion and tapped in position to ensure full contact with the adhesive, and adjust within 5–10 minutes.

For optimum bonding and better coverage between the adhesive and tile, apply a thin layer of adhesive at the back of the tile.

Ensure that the adhesive is wet when the tiles are laid. Do not allow the adhesive to skin over prior to tiling. Should skinning occur, break the skin by re-trowelling the adhesive in the opposite direction.

Ensure there are no voids under the tiles.

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Once tiling works are completed do not disturb the tiled surface for at least 6–8 hours (at +20 °C).

## CLEANING OF EQUIPMENT

Tile adhesive and tools can be cleaned with water while the adhesive is still wet. Hardened material can be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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