

PRODUCT DATA SHEET

SikaCeram[®]-138 TW

HIGH ELASTICITY CEMENTITIOUS TILE ADHESIVE

DESCRIPTION

Formerly known as Sika[®] Tile Adhesive 510T. SikaCeram[®]-138 TW is a high performance, thin layer, cementitious tile adhesive, for bonding ceramic tiles, porcelain tiles and mosaics of every type of floors and walls.

USES

SikaCeram[®]-138 TW is suitable to bond the following types of tile:

- Ceramic, porcelain, homogeneous tiles

All type of low and high absorption tiles SikaCeram[®]-138 TW can be used on substrates including:

- Concrete and mortar
- Bricks
- Can be use on walls and floors, internally or externally

CHARACTERISTICS / ADVANTAGES

- Easy to use with excellent workability and thixotropic consistency
- Can be applied on a vertical surface without sagging or letting the tiles slip.
- Very good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, etc.)
- Very good adhesion to existing tiles
- Suitable for new sites and refurbishment
- Can be used with SikaLatex[®] to increase performance of the adhesive
- High initial adhesive

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production
Storage Conditions	Undamaged original sealed packaging, in dry and cool conditions
Density	~1.3 kg/liter

TECHNICAL INFORMATION

Tensile Adhesion Strength	≥ 10kgf/cm ²
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APPLICATION INFORMATION

Mixing Ratio	~7 litres of water (29 % ±1 %) for 25 kg						
Consumption	<p>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).</p> <p>As a guide, per m² on flat surface:</p> <table><tr><td>Mosaics and small tiles</td><td>2.0–4.5 kg/m²</td></tr><tr><td>Normal size tiles (20 cm x 20 cm)</td><td>4.5–9.0 kg/m²</td></tr><tr><td>On external floors (60 cm x 60 cm & above)</td><td>9.0–13.5 kg/m²</td></tr></table> <p>*This may only serve as a guideline. It is highly recommended to carry-out trial on site to determine the actual consumption per m².</p>	Mosaics and small tiles	2.0–4.5 kg/m ²	Normal size tiles (20 cm x 20 cm)	4.5–9.0 kg/m ²	On external floors (60 cm x 60 cm & above)	9.0–13.5 kg/m ²
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Layer Thickness	3 mm min. / 10 mm max.						
Ambient Air Temperature	+5 °C min. / +40 °C max.						
Substrate Temperature	+5 °C min. / +40 °C max.						
Open Time	Open time is approximately 20 minutes under normal temperature and humidity conditions. In unfavourable conditions, the open time may be shorter.						
Adjustability Time	Once the tiles are placed into the mortar, they can be adjusted for ~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.

ECOLOGY

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. All rendered surfaces must be allowed to cure for at least 7 days prior to commencing tiling. The maximum variation in the plane of the concrete must not exceed 5 mm in 3 metres for floors and 4 mm in 2 metres for walls. Steel trowel finished concrete surfaces must be mechanically abraded prior to commencement of tiling. 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. 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 to 48 hours before the tiling works.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, 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 predampen the surface without leaving any standing water. Please contact Sika Technical Services for further information about the recommended primer for the specific substrate.

MIXING

Mix 25 kg bag with the necessary, above mentioned, amount of water, using an electric blender with a suitable mixing spiral at low speed in a clean bucket, and up to obtain a smooth paste free of lumps. Use a blender at 500 rpm max.; do not mix at faster rate because of mechanical strength decay of the cured product. After blending, leave the product curing for 5-10 minutes, preferably, and then briefly stir the mix prior to application. The obtained mix results very creamy, easily spreadable, and thixotropic.

APPLICATION

Tiling has to be carried out on fresh glue, exerting an adequate pressure to ensure contact with the adhesive, and thus the perfect bonding. In case a surface film is formed on the adhesive, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with water the adhesive already applied. It damages the adhesive.

The use of the product to lay non-absorbing tiles of maximum size up to 10000 cm² (e.g. 60 x 120 cm) for indoor floors, up to 3600 cm² (e.g. 60 x 60 cm) for indoor walls and outdoor paving, and 900 cm² (e.g. 30 x 30 cm) for façade without any mechanical clamps, is preferable. These limits are valid for cementitious, non-heating substrates. For any other kind of substrates, please contact the Technical Service. To lay tiles sized 900 cm², and over (e.g. 30 x 30 cm), the double-spreading (buttering) technique of adhesive application is always recommended.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

LOCAL RESTRICTIONS

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

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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