

PRODUCT DATA SHEET

SikaCeram[®]-118 TW

HIGH PERFORMANCE CEMENTITIOUS TILES ADHESIVE

DESCRIPTION

Formerly known as Sika[®]Tile Adhesive 320 T. SikaCeram[®]-118 TW is a high performance one-pack pre-mixed cementitious tile adhesive containing, cement, polymers, quartz minerals and additives, for bonding ceramic tiles, porcelain tiles and mosaics to floors and walls.

USES

SikaCeram[®]-118 TW is used for bonding ceramic tiles in continuous thin layers, up to 10 mm thick. SikaCeram[®]-118 TW is suitable to bond the following types of tiles:

- Ceramic, porcelain and homogeneous tiles
- All types of low and high absorption tiles
- SikaCeram[®]-118 TW can be used on these substrates:
 - Concrete and mortar
 - Bricks
 - Tiled surfaces (walls and floors) SikaCeram[®]-118 TW can be used on walls and floors, internally or externally. For external application, it is recommended that trials be carried-out.

CHARACTERISTICS / ADVANTAGES

- Easy to use with excellent workability and thixotropic consistency
- Very good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, etc.)
- Can be used with SikaLatex to increase performance of the adhesive

PRODUCT INFORMATION

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

APPLICATION INFORMATION

Mixing Ratio	~7 liters of water (29 % ±1 %) for 25 kg						
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, per m ² on flat surface: <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)</td><td>9.0–13.5 kg/m² above</td></tr></table> *This may only serve as a guideline. It is highly recommended to carry-out trial on site to determine the actual consumption per m ² .	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)	9.0–13.5 kg/m ² above
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On external floors (60 cm x 60 cm)	9.0–13.5 kg/m ² above						
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 within ~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

SikaCeram®-118 TW is applied directly on plasters and cementitious substrates, cement-lime mortars, concrete, plasterboard, floated concrete and old ceramic floors. On other substrates, use relevant primers.

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 min., preferably, and then briefly stir the mix prior to application. The obtained mix results very creamy, easily spreadable, and thixotropic.

APPLICATION

SikaCeram®-118 TW is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. 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 damage 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 2100 cm² (e.g. 30 x 60 or 45 x 45 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.

Sika Taiwan Ltd.

15F.-1, No. 83, Sec. 1, Nankan Rd.
Luzhu District
Taoyuan City 338207, Taiwan (R.O.C.)
TEL: 03 352 8622 . FAX: 03 352 0470
Info: sika@tw.sika.com
web: tw.sika.com



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