

PRODUCT DATA SHEET

Sika® Tile Adhesive®

Pre-Packed Cementitious Tile Adhesive
Class C1

PRODUCT DESCRIPTION

Sika® Tile Adhesive® is a single component, pre-packed tiling adhesive mortar combining cement with selected grades of silica sand and several admixtures. Sika® Tile Adhesive® has good bonding and consistency in different climate, and can be used for adhering different kind of tiles. Only requires addition of water.

USES

Sika® Tile Adhesive® provides the following properties:

- Factory mixed – Consistent quality
- Better workability. Save 25-50% of time
- Better coverage: 8-9 m² per 20 Kg (based on 2 mm mortar thickness)
- Tiles can be adjusted up to 30minutes after application
- Fixing wide range of tiles
- Good bond adhesion

In the following substrates:

- Concrete
- Hard natural and reconstituted stone
- Solid rock
- Hollow and solid masonry
- Cementitious plaster and render

CHARACTERISTICS / ADVANTAGES

- Extended Open Time up to 30min at 20°C
- Pot life up to 2h30min at 20°C
- Initial setting time is up to 360min
- Final setting time starting 420min
- Excellent adhesion to the substrate
- Economical by 10-20% than conventional mortar
- Low wastage

TESTS

APPROVAL / STANDARDS

Tested according to EN 1348

Tested according to EN 1542

PRODUCT DATA

FORM

COLOR

White

PACKAGING

Bag of 20 Kg

Pallet: 50 bags per palette.

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

12 months from date of production if stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight. Protect from humidity.

TECHNICAL DATA

DENSITY

1.60 Kg/L

CURING SPEED

Temperature	Open Time	Curing Time
>+40°C	15 minutes	8 hours
+20°C - +35°C	30 minutes	14 hours
+10°C - +20°C	45 minutes	30 hours
+ 5°C - +10°C	75 minutes	45 hours

WATER NEEDED

3.3 – 4.0 Litres per 20Kg bag

MINIMUM LAYER THICKNESS

2 mm.

MECHANICAL / PHYSICAL PROPERTIES

PULL OUT STRENGTH

Open time by tensile adhesion (according to EN 1348):

Conditions:

At 10 min	0.80 MPa
At 20 min	0.70 MPa
Extended at 30 min	0.60 MPa

Pull-off Stress (according to EN 1542):

Conditions:

1 day	N/A
7 days	0.8 MPa
28 days	1.2 MPa

System Information

APPLICATION DETAILS

CONSUMPTION / DOSAGE

Material consumption is 2.5 - 6.5Kg/m² depending on desired thickness.

SUBSTRATE PREPARATION

The substrate must be structurally sound and free from all traces of loose material, laitance, oil and grease. Substrates must be saturated surface-dry (no standing water).

APPLICATION INSTRUCTIONS**MIXING**

Place 2/3 of water quantity into the recipient bulk, add the tile adhesive powder slowly to the water while mixing; the usage of a mechanical mixer with low rotation speed is recommended. Add the remaining 1/3 water and mix until reaching a homogeneous mortar lumps free.

Keep the paste rest for 2 to 3 min prior application.

The exact water needed should be determined based on trials.

PRODUCT APPLICATION

Apply Sika® Tile Adhesive® on the substrate using a notched trowel in order to achieve a minimum uniform thickness of 2mm. Press firmly the tile into the substrate for certain seconds to ensure good contact with the adhesive. For better and full adhesion, apply Sika® Tile Adhesive® on both: back of the tile and substrate.

CLEANING OF TOOLS

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

VALUE BASE

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.

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.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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