

PRODUCT DATA SHEET

SikaTile®-390 Heavy Duty Tile Adhesive

High-quality C2T-type cement-based tile adhesive for interior and exterior applications.

DESCRIPTION

SikaTile® 390 Heavy Duty Tile Adhesive is a heavy-duty performance, cement-based adhesive that complies with PNS ISO 13007:2014 C2T classification. Designed for superior bond strength and antislip technology.

USES

SikaTile® 390 is a high-quality C2T-type, cement-based tile adhesive engineered for thick or thin-bed (TTB) applications on interior and exterior walls and floors. Its enhanced formulation delivers superior bond strength and reduced slip, ensuring secure installation even for heavy and large-format tiles, and it is ideal for low-porosity tiles such as porcelain types.

SikaTile® 390 is designed for versatility, it provides excellent adhesion on concrete, cement render, blockwork, and rendered brickwork surfaces, making it the ideal choice for projects both residential and commercial.

CHARACTERISTICS / ADVANTAGES

- High Quality Bond Strength (≥ 1 MPa)
- Anti Slip Technology.
- Heavy Duty Performance.
- Offers good workability.
- Easy to use; simply mix with water.
- Non-toxic, non-flammable.

PRODUCT INFORMATION

Chemical Base	Cement, selected aggregates and additives						
Packaging	25 kg per bag						
Colour	Gray powder						
Shelf Life	12 months from date of production if stored properly						
Storage Conditions	Store properly in unopened and undamaged original sealed containers protected from direct sunlight and moisture.						
Mortar mix design	22% - 24% water-to-powder ratio						
Tensile Adhesion Strength	<table border="0"> <tr> <td>Days</td> <td>MPa</td> <td>PSI</td> </tr> <tr> <td>28</td> <td>≥ 1.0</td> <td>≥ 145</td> </tr> </table> (product applied using 24% water-to-powder ratio)	Days	MPa	PSI	28	≥ 1.0	≥ 145
Days	MPa	PSI					
28	≥ 1.0	≥ 145					
Mixing Ratio	5.5 to 6 liters of water per 25 kg bag, until a lump free, creamy consistency is achieved. Working Temperature: 10°C to 35°C.						
Consumption	6mm x 6mm notched trowel – approx. 3.5 kg per sqm. 10mm x 10mm notched trowel – approx. 5 kg per sqm. *Disclaimer: Consumption may be higher depending on surface irregularities. Consult Sika Technical team for further application information						

Pot Life	1 – 2 hours
Open Time	20 minutes
Curing Time	24 hours
Fresh mortar density	1.5 – 1.8 kg/ L

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.

LIMITATIONS

No sand, admixtures, hydraulic binders, or cement must be added. The adhesive coverage must be uniform and must cover the entire tile thoroughly.

APPLICATION INSTRUCTIONS

General Condition

All surfaces must be structurally sound, dry, clean, and free from oil, grease, wax, dust, and other contaminants. All surfaces should be dampened using a sponge or cloth immediately before application. Very porous surfaces should be properly primed to ensure adhesion.

Concrete Surfaces

Remove all release agents, especially on tilt-up slabs. New concrete must be cured for at least 28 days before application. Steel trowel finished concrete should be acid-etched or wire brushed prior to tiling.

Rendered Surfaces

Newly rendered surfaces must be cured for at least 7 days before application. Painted surfaces must be scrubbed or abraded to expose at least 75% clean surfaces.

MIXING

Add (1) 25kg bag of SikaTile® 390 Heavy Duty Tile Adhesive to approximately 5.5 to 6 liters of clean water, mixing continuously until a lump-free, creamy consistency is achieved.

APPLICATION

Prepare the adhesive as instructed. Allow the mix to stand for 1 to 2 minutes, then remix before use. Spread adhesive onto the substrate using: 6mm x 6mm notched trowel for wall tiling. 10mm x 10mm notched trowel for floor tiling. Trowel size depends on tile size, depth of knobs, grooves, or ridges on tile back, substrate evenness. For tiles with deep grooves or ridges (e.g., slate or lugged tiles), butter coat adhesive on the back of the tile in addition to notched trowel application. Thicker adhesive beds help compensate for uneven substrates, especially slates. Do not spread more than 1 sqm of adhesive at a time. Ensure adhesive remains wet when tiles are laid and tapped into position for full contact. Ensure no voids under tiles. Do not allow adhesive to skin over before tiling. Install tiles within the open time specified. Do not disturb or walk on tiles for 24 hours after installation. Grout-ing should preferably be carried out at least 24 hours after the completion of tiling. For best results use SikaTile® Grout.

CLEANING OF TOOLS

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

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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