

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-750

(formerly MTile 750)

### 2 COMPONENT, POLYURETHANE RESIN TILE ADHESIVE

#### DESCRIPTION

SikaCeram<sup>®</sup>-750 is a solvent-free, two-component polyurethane tile adhesive for laying of ceramic tiles and natural stones on critical substrates such as metal, PVC and plastic-based layered panels.

Suitable for use in hot and tropical climatic conditions.

#### USES

- For indoor and outdoor use
- For walls and floors
- For laying ceramic tiles, porcelain mosaic, brick tiles, clinker bricks, fully vitrified tiles and non-moisture sensitive natural stone tiles.
- In swimming pools, pool surrounds, wet rooms and cold storage depots
- On cement screeds, ground anhydrite and/or gypsum based floated screeds, precast concrete elements, aerated concrete, heated screeds, plasterboards, gypsum fiber boards, dry screeds, insulation boards, plaster slabs and plaster.
- For renovating old houses, prefabricated houses, for interior finishing and kitchen worktops
- On impermeable, smooth and vibrating substrates, e.g. old ceramic, natural stone, aluminium, steel, PVC covering and polyester substrate
- For bonding thick layers of non-structural, dry building elements
- For bonding non-structural, dry steel elements
- For fixing of glue injectors
- For fast-track tiling work, such as renovation of natural stones and ceramic coverings in residential buildings and commercial buildings, prefabricated houses, with only short interruptions in operation
- For tile-on-tile application (contact Sika representative for further information)

#### FEATURES

- Deformable and hard-elastic
- Fast and shrinkage-free curing
- Groutable after approx. 3 hours, able to bear weight after approx. 12 hours
- Suitable for laying of porous natural stones
- Especially suitable for fast-track tiling, e. g. for refurbishment work with only short interruptions in operation
- Flexible, adaptable to variations in temperature and expansions in the substrate
- Reliable bond to impermeable, smooth and vibrating substrates
- Impermeable to water and, to a sufficient degree, to water vapor
- Prevents moisture absorbing

#### CERTIFICATES AND TEST REPORTS

SikaCeram<sup>®</sup>-750 meets the requirements of EN 12004-1 for class R2T.

## PRODUCT INFORMATION

Composition	Polyurethane resin
Packaging	5 kg set (Part A + Part B)
Shelf life	12 months from date of production
Storage conditions	Store in undamaged, original sealed packaging in dry conditions at temperatures between +5°C and +23°C. Protect from direct sunlight, heat and moisture.
Colour	White
Density	~1.55 -1.61 kg/l (mixed, at 25°C)

## TECHNICAL INFORMATION

Shear adhesion strength	Initial	$\geq 2.0 \text{ N/mm}^2$	(EN 12004-2)
	After thermal shock	$\geq 2.0 \text{ N/mm}^2$	
	After water immersion	$\geq 2.0 \text{ N/mm}^2$	
Service temperature	-30°C min. / +80°C max.		
Reaction to fire	Class E		

## APPLICATION INFORMATION

**Consumption** Consumption and coverage depends on the surface profile and roughness of the substrate, size and reverse profile of the tiles and the placing technique (simple placing "floating" or back to back "buttering-floating"). As a guide for simple placing technique:

Required notch size:	Quantity of mixed material:	Theoretical coverage per 5 kg set:
4 mm	~1.8 kg/m <sup>2</sup>	~2.7 m <sup>2</sup>
6 mm	~2.3 kg/m <sup>2</sup>	~2.1 m <sup>2</sup>
8 mm	~3.0 kg/m <sup>2</sup>	~1.6 m <sup>2</sup>
10 mm	~4.2 kg/m <sup>2</sup>	~1.1 m <sup>2</sup>
Solid bed application	~1.6 kg/m <sup>2</sup> /mm thickness	~3.1 m <sup>2</sup> at 1 mm thickness ~1.5 m <sup>2</sup> at 2 mm thickness

Note: All figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Layer thickness	1 mm min. / 5 mm max.
Ambient air temperature	+10°C min. / +40°C max.
Dew point	Beware of condensation. Substrate temperature during application must be at least 3°C above dew point.
Substrate temperature	+10°C min. / +40°C max.
Substrate moisture content	< 4 % pbw moisture content Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM D4263 (Polyethylene-sheet).
Pot Life	~45 min at 23°C and 50 % relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

<b>Open Time</b>	~30 - 40 min at 30°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.	
<b>Application time</b>	Working time: ~30 - 40 min at 30°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.	
<b>Applied product ready for use</b>	Light foot traffic	~3 hours
	Groutable	~3 hours
	Able to bear weight	~12 hours
Note: When applied on slightly absorbent substrates. Values determined in laboratory conditions: +23°C ± 2°C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures will increase the indicated waiting time.		

## BASIS OF PRODUCT DATA

- All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
- Internal Reference - Version: MBS\_CC-UAE/Tile\_750\_03\_22

## FURTHER DOCUMENTATION

General Method Statement (GMS)

## IMPORTANT CONSIDERATIONS

- Protect from adverse weather conditions, such as extremely high or low temperatures, rain, direct exposure to sun, wind, etc. for at least 24 hours after application.
- DO NOT allow to come in contact with water until fully cured.
- Avoid application in direct sunlight.
- Always perform a test on cleanability and staining before bonding natural stone or any type of tile with absorbent or porous surface.
- Do not add fillers, water or solvents.
- Immediately remove any contamination on the surface of the covering. Wipe and remove remaining film with suitable cleaning products using agents (e.g. Sika® Cleaning Wipes)
- After laying tiles, underfloor heating systems can be operational at least after 7 days at room temperature. They should be put into operation slowly.
- For application as tile adhesive above waterproofing layers, please contact Sika's Technical Department.
- If not stated otherwise, the technical data refers to +23°C and 50% RH. Lower temperatures prolong, higher ones shorten the specified values.
- Movement joints should be included in top covering and should be filled with suitable sealant from Sika's range, for normal practices refer to the BS Standard 5385.
- Tiling should be in accordance with relevant international Codes of Practice.
- Generally, exposure to high exterior temperatures of 40°C will have some effect on the tiles and pot life of the mix.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

- The substrate must be clean and dry. Dirt, grease, oil, wax, old coatings, floor cleansing agents, gypsum-based patching compounds etc. must be completely removed.
- The subsurface must comply with the relevant standards, comply with information sheets and guidelines (suitable age and residual moisture).
- Steel and other metal substrates must be degreased (e.g. with Xylene / MEK / Acetone solvent), derust and treated with rust protection (e.g. SikaCor® EG-1 Plus).
- Old, waterproof adhesives must be removed mechanically.
- Dewax old PVC coverings and thoroughly clean them (if necessary grind).
- Mechanically roughen old polyester and GRP surfaces and clean with suitable thinner (e.g. Xylene / MEK / Acetone solvent).
- Old, fixed ceramic coverings must be detaly cleaned (black pad).
- Absorbent cement or calcium sulfate-bound substances should be primed with suitable primer. Contact Sika's technical service advisor.

### MIXING

Add hardener component to base component and thoroughly mix until a homogeneous, streak-free material mix is achieved, using a mechanical mixer attached to an electric drill (~300 rpm). Avoid overmixing. Transfer material to another clean mixing container and re-mix. Mix full units only, do not split the kit. Do not mix more material than can be applied within it's pot life.

## APPLICATION

- Spread small portions of mixed SikaCeram®-750 onto the substrate to be tiled to allow the reaction heat to dissipate.
- Apply a thin scratch coat using the straight edge of the trowel.
- Using the notched edge of the trowel, comb as much SikaCeram®-750 onto the scratch coat as can be covered with ceramic tiles within its pot life.
- Place tiles and adjust to correct position. Heavy vitrified tiles and/or large format tiles should be wedged if necessary.
- Before tiling on moisture-sensitive substrates, apply a layer of SikaCeram®-750 directly onto the substrate to produce a water-impermeable layer. The layer must be at least 1.5 mm thick and pore free. Seal pipe culverts, corner joints and floor/wall junctions with appropriate type of SikaCeram® WP Tape. Use SikaCeram®-750 to fix SikaCeram® WP Tape.
- Large-size vitrified tiles, not subject to mechanical loads, can be laid by applying dots or stripes to the reverse side of the tiles. When applying the dot and dab method, put palm-sized dots at the corners and in the center of the tiles and spread the adhesive to a uniform thickness using the notched edge of the trowel. The joints must stay free from adhesive. Press tiles into the substrate, adjust them to correct position with a twist and slide motion using battens.
- In case of lath construction and completely level substrates, apply stripes of SikaCeram®-750, approx. 10 cm wide, to the lath work and/or reverse of the tile and spread to a uniform thickness using the notched edge of the trowel.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment using a suitable thinner (Xylene / MEK / Acetone), immediately after use. Hardened / cured material can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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September 2024, Version 02.01  
021710000010002004