

PRODUCT DATA SHEET

SikaCeram[®]-30

(formerly MTile 30)

CEMENTITIOUS, POLYMER MODIFIED TILE ADHESIVE FOR CERAMIC AND PORCELAIN TILES

DESCRIPTION

SikaCeram[®]-30 is one-pack, polymer-modified, cement based tile adhesive for thin bed fixing of ceramic or porcelain tiles in interior or exterior areas. Suitable for use in hot and tropical climatic conditions.

USES

SikaCeram[®]-30 is developed for swimming pools and may be used in wet process applications including abattoirs, shower rooms, institutional kitchens, bath-rooms, etc.

Used in conjunction with SikaCeram[®] RSG 705, the system is suitable for use where chemical resistance or a high standard of hygienic quality is essential. For extreme conditions such as vibration or temperature extremes etc. SikaCeram[®]-30 can be mixed with suitable latex based additive, instead of water.

When mixed with SikaCeram[®] A 200, SikaCeram[®]-30 may be used to tile directly onto glazed tile surfaces and is recommended for non-porous or high density glass mosaics and moisture tolerant natural stone. Please consult Sika's Technical Service Department for advice.

SikaCeram[®]-30 is suitable to be applied on following substrates:

- Concrete
- Sand cement screeds
- Renders
- Plaster boards*
- Gypsum fiber boards*

CHARACTERISTICS / ADVANTAGES

- Thin bed application
- Water resistant, immersion will not affect adhesion
- Non-slip on vertical areas
- Ready to use - just add water
- Extended open time
- SikaCeram[®]-30 mixed with latex additive is suitable for fixing certain types of natural stone.
- High adhesive bond strength

APPROVALS / STANDARDS

SikaCeram[®]-30 follows the main requirements of ANSI A 118.1 and ANSI A 118.4 when mixed with SikaCeram[®] A 200 (formerly MTile A 200)

PRODUCT INFORMATION

Chemical Base	Blend of Portland cement and graded sand, reinforced with a high organic polymer content.
Packaging	20 kg bag
Appearance / Colour	Grey or off-white powder
Shelf Life	12 months from date of production
Storage Conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight, heat and moisture.

APPLICATION INFORMATION

Mixing Ratio	3.6 - 4.0 L of water per 20 kg bag								
Consumption	<p>Powder 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").</p> <p>As a guide for solid bed application: For 1 mm thickness over 1 m² area approximately 1.5 kg of powder is required.</p> <p>This figure is theoretical and does 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. Above consumption indications refer to the installation of slightly profiled, non-vitrified or vitrified tiles on flat substrate e.g. render or cement screed.</p> <p>For small sized tiles (side ≤ 30 cm), use small squared notch size trowel (4 - 6 mm) and progressively increase for medium tiles (side ≤ 45 cm, trowel 6 - 8 mm) or large tiles (side ≤ 60 cm, trowel 8 - 10 mm).</p>								
Yield	A 20 kg bag mixed with 3.6 - 4.0 L of water yields approximately 13.1 - 13.3 L of mixed adhesive.								
Layer Thickness	Min. 3 mm (solid bed application) Max. 10 mm (solid bed application)								
Ambient Air Temperature	+5°C min. / +40°C max.								
Maturing time	~5 min (Slake time)								
Pot Life	~1 hour at +25°C								
Open Time	~20 minutes at +25°C								
Applied Product Ready for Use	<table><tr><td>Tiles can be grouted</td><td>~24 h</td></tr><tr><td>Foot traffic</td><td>~24 h</td></tr><tr><td>Able to bear weight</td><td>~7 days</td></tr><tr><td>Fully cured</td><td>~28 days</td></tr></table> <p>Values determined in laboratory conditions: +25°C ± 2°C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures will increase the indicated waiting time.</p>	Tiles can be grouted	~24 h	Foot traffic	~24 h	Able to bear weight	~7 days	Fully cured	~28 days
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Fully cured	~28 days								

SYSTEM INFORMATION

System Structure	* In normal conditions on cement-based substrate, no primer is required. However, for very high absorbent substrates (e.g. drywalls) or non-absorbent substrates, please contact Sika Technical Service for recommendation.
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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.

FURTHER DOCUMENTS

- General Method Statement (GMS)

LIMITATIONS

- Protect from adverse weather conditions, such as extremely high or low temperatures, rain, direct exposure to sun, wind, etc. for at least 24 hours from application.
- Avoid application in direct sunlight and/or strong wind / draughts.
- Make a test area prior to carrying out any work with natural stones.
- Substrates made of precast concrete elements and/or in-situ concrete must be sufficiently cured as per common industry practice.
- The open time is reduced in case of absorbent substrates.
- Never add water or dry powder to reconstitute a SikaCeram®-30 mix which has already begun to set.
- Solid bed fixing is recommended for wet conditions and for ceramic and marble flooring tiles.
- If required, the SikaCeram®-30 can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- After laying of tiles, it is required to remove the adhesive from the joints, down to a uniform depth to ensure proper, stain-free grouting afterwards.
- For natural stones or artificial stones subject to staining and/or deformation, please use other suitable tile adhesive. Please contact Sika Technical Service for recommendation.

SikaCeram®-30 shall not be applied in the following cases:

- On metal surfaces
- On painted surfaces
- On old ceramic tiles
- For stone wares and porcelain tiles in large size (side > 60 cm)

ECOLOGY, HEALTH AND SAFETY

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 (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate preparation equipment:

- Grinding equipment
- Abrading equipment
- Power washing equipment
- Sandblasting equipment

Mixing equipment:

- Low speed electric single or double paddle mixer (recommended 300–400 rpm) with a spiral mixing paddle.

Application equipment:

- Notched trowel, various sizes

SUBSTRATE QUALITY

- Cementitious substrates must be sufficiently cured and dried.
- All substrates must be structurally sound, able to support the weight of the new tiling and provide a firm and securely fixed background.
- The substrate must be flat, tight and free from easily removable parts, non-deformable and correctly aged.
- Substrates must be clean, dry, free of any loose or friable particles, contaminants such as dust, dirt, oil, wax polish, grease, cement laitance or efflorescence.
- The substrate must be plumb and flush in accordance with BS 5385. Plaster substrates must be approved by the plaster manufacturer for fixing ceramic tiles and must be suitable for the intended area of use.

SUBSTRATE PREPARATION

- Use adequate mechanical preparation techniques to remove from the substrate, all traces of any materials that could reduce the product's adhesion to the substrate.
- Smooth surfaces must be roughened lightly to improve adhesion.
- To confirm adequate surface preparation and adhesion, carry out a small trial before full application.
- For larger and thicker areas of substrate re-profiling, use suitable mortars from the Sika MonoTop® or SikaEmaco® range. Level concrete floors with SikaScreed® or SikaLevel® range.
- For any repairs of the substrate materials of SikaEmaco®, SikaRep® or Sika MonoTop® range should be used, applied at least 24 hours before laying the ceramic tiles.
- Identify cracks in the substrate and seal appropriately with Sikadur® epoxy resins.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen (saturate) the substrate before product application.

- Avoid any ponding / standing water on the substrate.
- Surface must not be damp to touch.
- For tiling in constantly damp or wet rooms, a suitable Sika® waterproofing product / systems must be applied to the substrate before tiling.
- Prime very absorbent cement-based substrates, aerated concrete, renders, plaster boards or gypsum fibre boards with suitable primer. Contact Sika® Technical Service Department for recommendation.

MIXING

Mix a bag with the necessary, above mentioned, amount of clean water, using an electric blender with a suitable mixing spiral at low speed, in a clean bucket, to obtain a smooth paste free of lumps.

Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product.

Allow a maturing time (slake time) of approx.

5 minutes for SikaCeram®-30 in the mixing container, then remix briefly prior to application.

Always start with minimum recommended quantity of water (water/powder ratio), only if required, gradually add water to desired consistency. Do not exceed maximum allowed limit of water per bag weight.

The obtained mix results should be very creamy, easily spreadable and thixotropic.

Do not mix more material than can be used within pot life.

Larger quantities may be mixed with forced action mixer.

APPLICATION

SikaCeram®-30 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 adhesive off and re-apply. Avoid wetting already applied adhesive with water, as it may negatively affect its properties. Note: For tiles > 900 cm² (30 x 30 cm), the double spreading ("buttering") technique is always recommended.

Adhesive application:

- Apply a thin scratch coat to the substrate with the smooth edge of the trowel.
- Comb mortar onto the fresh scratch coat with a notched trowel.
- Apply sufficient adhesive to the prepared fixing surfaces with the notched trowel to the required bed thickness, in one direction.
- Place the tiles in the adhesive bed with a twist and slide motion and adjust to correct position.
- Adjust the tiles if required.
- Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.

CLEANING OF TOOLS

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

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.

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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