

PRODUCT DATA SHEET

SikaCeram® Flexible Rapid Set Tile Adhesive +

Rapid-setting, flexible cement-based tile adhesive for floors and walls

PRODUCT DESCRIPTION

SikaCeram® Flexible Rapid Set Tile Adhesive+ is a water resistant, rapid-setting floor and wall tile adhesive allowing tiles to be grouted approx. 3 hours after fixing (subject to normal room temperatures). Its built in crack resistance makes it ideal for applications where slight surface movement or vibration is likely. Used for bonding ceramic, natural stone, porcelain and mosaic tiles to most building substrates in both interior and exterior locations. This product is ideal for when same day fixing is required.

USES

- Floors and walls.
- Internal and external applications.
- Use with underfloor heating.
- Areas subject to sub-floor movement or vibration.
- Concrete.
- Cement screeds.
- Chipboard.
- Plywood.
- Composite board.
- Timber.
- Floor boards.
- Unskimmed plasterboard.
- Areas subject to occasional wetting but not total immersion (e.g. Bathrooms, kitchens, domestic showers etc.)

PRODUCT INFORMATION

Chemical Base	Cementitious
Packaging	20 kg bag

CHARACTERISTICS / ADVANTAGES

- Rapid drying: 3 hours – same day fixing and grouting.
- Crack resistant.
- Frost resistant.
- Excellent water resistance.
- Use with underfloor heating.
- Excellent adhesion properties.

APPROVALS / STANDARDS

Conforms to BS EN 12004 – Class C2 FT.

Appearance / Colour	Grey powder
Shelf Life	9 months from date of manufacture when stored according to the manufacturer's instructions.
Storage Conditions	Store in unopened bags in cool dry conditions (+5 °C to +30 °C). Keep clear of the ground and protect from excessive draught. PROTECT FROM FROST AND DAMP.
Density	Approx. 1.8 g/cm ³
Tensile Strength	≥1.0 N/mm ²
Consumption	20 kg bag covers: Approx. 2.0 m ² using 8 mm notched trowel Approx. 3.5 m ² using 6 mm notched trowel Approx. 5.0 m ² using 4 mm notched trowel Coverage is dependent on application technique, substrate and type of tiles used, therefore these figures are only a guide.
Pot Life	Approx. 30 minutes
Open Time	Approx. 20 minutes depending on surface porosity and site conditions. Test open time by touching the adhesive bed with a gloved finger; if adhesive transfers to the glove a safe bond is assured.

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.

LIMITATIONS

- Do not use at temperatures below +5 °C.
- Always mix with clean fresh water and always prime/bond surfaces as directed.
- Never exceed the quantity of water stated. This will dramatically reduce strength and cause failure.
- Always mix with SikaBond® SBR when tiling on wooden floors/floors with movement.
- Do not use on painted surfaces. Remove paint first.
- Do not use over metal.
- Do not mix this tile adhesive when air or ground temperatures are forecast to be below +5 °C or above +35 °C during the first 24 hours after application.
- Do not apply to damp surfaces or when ambient temperature is persistently below +15 °C as this will increase drying process by several days.
- Do not mix more SikaCeram® Flexible Rapid Set Tile Adhesive+ than can be laid in approximately 10 minutes and never try to reconstitute once the product has set.
- Floors must be prepared as directed and free and all obvious movement before tiling.
- Existing concrete sub floors must be a minimum of 4 weeks old before overlaying with this product.
- On substrates where underfloor heating is in

place, switch off the heating for 24 hours before application.

- Do not allow adhesive residues to set on the tile face.

It is the user's responsibility to determine suitability of use. If in doubt, please contact Technical Services department for advice.

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 QUALITY / PRE-TREATMENT

All surfaces must be clean, firm and free of dust, dirt, oil and loose flaking coatings. They must also be structurally sound and able to withstand the expected traffic loading.

- Porous Substrates - Prime surfaces with SikaBond® PVA+ diluted 1:3 with clean water and allow to dry.
- Non-porous Substrates (e.g. Ceramics) - Prime using a slurry coat of 1 part SikaCeram® Flexible Rapid Set Tile Adhesive+ and 2 parts SikaBond® PVA+.
- Timber Floors / Floorboards - Cover with boarding (plywood or chipboard) which must be at least 18 mm thick and be of moisture resistant grade.

Secure with screws, not nails, at 300 mm centres. All boards must be level, showing no edge protrusions and be fixed in place with a 0.5-1 mm gap to avoid expansion stresses between boards and around perimeters. Prime with SikaBond® SBR at 1:3 dilution rate.

MIXING

- SikaCeram® Flexible Rapid Set Tile Adhesive+ should be added to clean water.
- Always add powder to water.
- Mix approximately 1 part water to 4 parts powder and mix to a slump free mortar.
- Never add further water once the adhesive has started to go off. This will destroy the bond strength.
- **For application on timber board** - Replace water with a 1:1 mix of water and SikaBond® SBR.
- Stir the mixture with a mechanical mixer for approximately 2 minutes, allow to stand for 2 minutes and then re-mix until a smooth creamy, slump free, consistency is achieved for easy workability.

APPLICATION

- Work in an area no greater than 2-3 m² or equivalent to 30 minutes working time.
- Using a large notched trowel spread the adhesive evenly onto the substrate. Size of notches depends on size of tiles being used, the surface being tiled, the profile on back of the tiles, and degree of coverage required.
- For floors, external locations or wet areas (showers etc.), solid bed fixing should be achieved. For solid bed fixing, tiles usually require buttering immediately prior to placing into the ribbed bed so as to leave no voids beneath the tiles.
- Press the tiles firmly into place using a slight twisting action.
- It is good practice to periodically remove a tile and check that the adhesive covers a minimum of 75 % of the tile.
- Tile positions can be adjusted up to 10 minutes after initial fixing.
- Leave a grout joint of at least 2 mm, unless self spacing tiles are used.
- All surplus adhesive must be removed whilst the adhesive is still wet using a dampened cloth or sponge, particularly along the grout lines.

- Initial set will occur after approx. 3 hours. This product will fully harden in approx. 24 hours. It is important the tiles are left undisturbed for a minimum of 2 hours after fixing at normal room temperatures.
- When the adhesive is fully set, wall and floor joints can be grouted using SikaCeram® Flexible Grout. Approximately 3 hours after application at room temperature. However, this period will be extended in cold conditions.
- **Subfloor Heating** - Fixing over a heated sub-floor requires the adhesive to cure for at least 2 to 3 weeks before switching on the heating and gradually raising the set temperature by +2 °C per day until the floor is at its required operating temperature.

CLEANING OF TOOLS

Clean all tools/equipment with water after use. Wash hands immediately after using this product.

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.

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Product Data Sheet

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