BUILDING TRUST

PRODUCT DATA SHEET

SikaCeram® Flexible Rapid Set Tile Adhesive Ultra

S1 grade flexible rapid-setting tile adhesive for floors and walls with extended open time

PRODUCT DESCRIPTION

SikaCeram® Flexible Rapid Set Tile Adhesive Ultra is a rapid-setting S1 floor and wall tile adhesive for bonding ceramic, natural stone, porcelain and mosaic tiles to most building substrates. For both interior and exterior use. It has a long working pot-life and extended open time making it ideal for applications where extensive cutting is required during application.

USES

- Suitable for use with underfloor heating.
- Areas under constant water immersion e.g. swimming pools as well as bathrooms, kitchens, showers.
- Floors and walls.
- Internal and external applications.
- Concrete.
- Cement screeds.
- Tile backer boards.
- Cement faced fibre boards.
- Render.
- Existing tiles.
- Dense block work.
- Plaster.
- Plasterboard.

CHARACTERISTICS / ADVANTAGES

- Extremely flexible.
- Crack resistant.
- Frost resistant.
- Rapid setting.
- Fully water resistant – for areas which are frequently wet or fully immersed in water.
- Interior and exterior use.
- Excellent non slip properties.
- Extended open time.
- 40 - 60 minute pot life.
- Available in white for fixing light coloured natural stone such as marble and tavertine.

APPROVALS / STANDARDS

Conforms to BS EN 12004 – Class C2 FTE S1

PRODUCT INFORMATION

Chemical Base	Cementitious
Packaging	20 kg bag
Appearance / Colour	Grey or white powder
Shelf Life	White - 12 months Grey - 9 months From date of manufacture when stored according to the manufac-

	turer's instructions.
Storage Conditions	Store in unopened bags in cool dry conditions. Keep clear of the ground and protect from excessive draught. The use of this product after the end of the declared storage period may increase the risk of an allergic reaction.
Density	Approx. 1.5 g/cm³
Service Temperature	-30 °C to +100 °C

APPLICATION INFORMATION

Mixing Ratio	3 parts powder to 1 part water by volume 4 parts powder to 1 part water by weight (5 L water to 20 kg bag powder)
Consumption	Approx. 4 kg/m² when using a 10 mm notched trowel
Layer Thickness	6 mm and comb to 3 mm
Ambient Air Temperature	+5 °C to +35 °C
Pot Life	40-60 minutes dependant on temperature and site conditions
Open Time	20 to 35 minutes at +20 °C
Curing Time	Initial Set: 2-3 hours; Final Set: 24 hours, dependant on temperature and site conditions

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

- 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.
- 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 Adhesive Ultra than can be laid in approximately 30 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.
- Do not use for wall tiling directly onto gypsum based plaster. Follow surface preparation instructions.
- Do not use on painted surfaces. Remove paint first.
- Do not use over metal.
- Do not walk on floors until adhesive has fully set (approximately 2 hours normally).
- On substrates where underfloor heating is in place, switch off the heating for 24 hours before application.
- When used externally, do not apply when rain is imminent and protect from rain for at least 24 hours.
- Not recommended for application directly onto tongue and groove timber floorboards or floating plywood floors.
- 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. Worn or porous substances should be primed with SikaBond® SBR.

- **Concrete / Screeds / Renders / Unskimmed Plasterboard / Block work -** Surfaces such as tamp-rutted concrete and masonry block-work, that are rough or uneven should be prepared with a suitable SikaFloor® self levelling compound and allowed to fully cure for at least 24-48 hours before application. Allow fresh concrete etc. to dry for at least 4 weeks before tiling. Ensure floors are free from rising damp. Prime surfaces with SikaBond® SBR diluted 3 parts water to 1 part SBR Bond and allow to dry.
- **Timber Floors / Floorboards -** Suitable for interior floors only. Ensure adequate ventilation beneath floors. Cover with boarding (plywood or chipboard) which must be at least 12 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. Alternatively use cement backer board to cover wooden floors then treat as concrete.
- **Exisiting Tiles -** Ensure tiles are securely bonded to wall or floor. Roughen surface of glazed tiles with sander. Apply a bonding coat of neat SikaBond® SBR. Apply mixed adhesive whilst bonding coat is still tacky.
- **Gypsum Plaster or Anhydrite -** Prime with two coats of SikaBond® SBR before use on bare unsealed gypsum or anhydrite floor. 1st coat 1:1 dilution, 2nd coat neat.

MIXING

- SikaCeram® Flexible Rapid Set Tile Adhesive Ultra should be added to clean water.
- Always add powder to water.
- Mix approximately 1 part water to 3 parts powder by volume (20 kg powder to approximately 5 L of clean water) 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.

APPLICATION

- All surfaces should be clean, dry and free of dust and loose material before commencing. Refer to above for specific surface preparation.
- Use a notched trowel to give a ribbed mortar bed on the substrate, to which the tiles should be firmly bedded with a twist and slide action to ensure full contact.
- Use a 3 mm x 3 mm notch at 6 mm centres for mosaics and thin flat backed wall tiling.
- Use a 5 mm x 5 mm notch at 10 mm centres for general wall tiling.
- Use 10 mm x 10 mm notch at 16 mm centres for general floor tiling.
- SikaCeram® Flexible Rapid Set Adhesive Ultra will remain workable for up to 40 – 60 minutes depending on absorbency of substrate and temperature. Lightly touch the adhesive periodically, if a skin has formed, remove the adhesive and apply a new layer.
- It is good practice to periodically remove a tile and check that the adhesive covers a minimum of 75 % of the tile.
- All surplus adhesive must be removed whilst the adhesive is still wet using a dampened cloth or sponge, particularly along the grout lines.
- 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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