

PRODUCT DATA SHEET

SikaCeram[®]-240 Flexible Rapid

Rapid curing with added powder polymer for increased flexibility and adhesion

PRODUCT DESCRIPTION

SikaCeram[®]-240 Flexible Rapid is a highly flexible, rapid-setting tile adhesive that is suitable for bonding ceramic tiles to walls or floors, and suitable for both thick and thin bed applications. This product is ideal for when same day fixing is required as well as a tile adhesive that can accommodate sub floor movement. Its built in crack resistance makes it ideal for applications where slight surface movement or vibration is likely. SikaCeram[®]-240 Flexible Rapid can be used for the interior and exterior fixing of all types of ceramic wall tiles, including mosaics, vitrified tiles, porcelain and natural stone.

USES

- Interior and exterior applications
- Securing floor and wall tiles to most surfaces
- Areas subject to sub-floor movement or vibration
- Fixing onto most building substrates including; plasterboard, plywood, composite board, floorboards, chipboard, timber and concrete.
- Areas subject to occasional wetting but not total immersion (e.g bathrooms, kitchens, domestic showers etc.)

PRODUCT INFORMATION

Chemical Base	Cement and selected aggregate.
Packaging	20 kg Bags
Shelf Life	Use within 9 months from date of manufacture
Storage Conditions	Store unopened in original packaging, off the ground, in cool, dry conditions and away from excess draughts.

CHARACTERISTICS / ADVANTAGES

- Rapid setting – ready for grouting in only 3 hours
- Crack resistant
- Excellent adhesion properties
- Water resistant, suitable for bathrooms and kitchens
- Frost resistant
- Open time 20-30 minutes
- Thick or thin bed (up to 8mm)
- Internal and external use
- Suitable for use with underfloor heating

APPROVALS / STANDARDS

Conforms to BS EN 12004: C2FE

Appearance / Colour	Grey Powder
Density	1.8 g/cm ³
Tensile adhesion strength	≥1.0 N/mm ²

APPLICATION INFORMATION

Mixing Ratio	1 part water to 4 parts powder by volume (approx. 1 kg water to 7 kg powder by weight)
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	The open time of the exposed adhesive bed is 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

SUBSTRATE QUALITY / PRE-TREATMENT

All surfaces (including existing tiles) must be clean, firm and free of dust, dirt, oil, loose flaking coatings, etc.

Porous substrates must be primed with **SikaBond® PVA+**. Non porous substrates such as ceramics, should be primed using a slurry coat made of 1 part SikaCeram®-240 Flexible Rapid and 2 part **SikaBond® PVA+**.

Timber floors must be structurally sound and braced securely to support applied traffic. We recommend all wood based surfaces be dry and primed with a diluted mix of **SikaBond® SBR+** and allowed to dry.

Timber board should be waterproof rated, 18 mm thick and screw-fixed at 300 mm centres for a stable background.

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 perimeter.

Do not apply to damp surfaces or when ambient temperature is persistently below 15 ° C as this

will increase drying process by several days.

MIXING

SikaCeram®-240 Flexible Rapid should be added to cold clean water using a ratio of approximately 1 part water to 4 parts powder (or 1 part diluted admix: 4 parts Powder). 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 dry, internal locations adhesive contact should be at least 65 % of the back of the tile.
- For floors, or external locations, or in 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. Remove the occasional tile to check anticipated bedding is being achieved.
- Press the tiles firmly into place using a slight twisting and sliding action.
- 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.
- Surface adhesive should be cleaned from the faces of the tiles with a moist cloth. Rake excessive adhesive from within joints before setting takes place.
- The open time of the exposed adhesive bed is 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.
- Setting time (ready for grouting) is achieved in approximately 3 hours at 20 °C. It is important the tiles are left undisturbed for a minimum of 2 hours after fixing at normal room temperatures.
- Adhesive should be fully load bearing after 24 hours at 20 °C.
- Do not use at temperatures below 5 °C.
- Do not apply if frost is forecast within 24 hours, in wet conditions, to areas in direct sunlight or to substrates that are hot.

GROUTING

- Allow 3 hours before grouting depending on site conditions, or until the tile bed is firm.
- Follow the manufacturer's instructions for protecting and sealing the tiles before and after grouting.

CLEANING OF TOOLS

All equipment should be cleaned with water immediately after use.

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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Product Data Sheet

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