

PRODUCT DATA SHEET

SikaCeram[®]-277 Rapidbond

(formerly Davco[®] Rapidbond)

RAPID SETTING FLEXIBLE CEMENT-BASED TILE ADHESIVE

DESCRIPTION

SikaCeram[®]-277 Rapidbond is a single component rapid-setting flexible tile adhesive for thin bed installation of tiles for locations where the tiled area needs to be put into service as quickly as possible. SikaCeram[®]-277 Rapidbond is classified as C2S1FE when tested in accordance to BS EN 12004-2 : 2017.

USES

- Fixing of ceramic, monocuttura, vitrified, mosaic and quarry tiles, slate, marble and all types of natural stone.
- Direct fixing over existing floor and wall tiles.
- Used in place of epoxy grouts for bedding and grouting if a high strength fast setting adhesive is required.

CHARACTERISTICS / ADVANTAGES

- Bonds well on concrete, cement render, concrete blocks, rendered brickwork.
- Bonds well on previously hacked surfaces and on surfaces where a cement based patched mortar has been used.
- Suitable in areas of intermittent or continuous dampness.
- Trafficable after 4.5 hours (depends on the temperature).
- No pre-soaking of tiles required.
- Water resistant.

PRODUCT INFORMATION

Packaging	20 kg/bag
Appearance / Colour	Grey Powder
Shelf Life	6 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.

TECHNICAL INFORMATION

Tensile Adhesion Strength	6 hrs	24 hrs	Heat Ageing @ 70 °C for 14 days	(7d + 21d) Water Im- mersion	(BS EN 1348 : 2007)
	<u>≥ 0.3 N/mm²</u>	<u>≥ 1.0 N/mm²</u>	<u>≥ 1.0 N/mm²</u>	<u>≥ 1.0 N/mm²</u>	
Reaction to Fire	Non Flammable				

APPLICATION INFORMATION

Mixing Ratio	4.6 – 4.9 litres of water to 20 kg/bag
Consumption	<ul style="list-style-type: none">▪ Using a 6mm x 6mm notched trowel - approx 3.5 kg/m²▪ Using a 12mm x 12mm notched trowel - approx 7.0 kg/m²▪ Using a 20mm x 20mm notched trowel - approx 11.9 kg/m²
Pot Life	40 to 60 mins
Open Time	30 mins
Adjustability Time	Working Time 25 °C ~ 30 mins

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.

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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces must be structurally sound, dry, clean and free from movement and any contaminants. Newly rendered surface must be allowed to cure for at least 48 hours prior to tiling.

Old surfaces should be thoroughly cleaned to ensure that an acceptable substrate for adhesion is prepared. Failure to comply with the above surface preparation techniques may result in lower adhesion characteristics and possible delamination.

Uneven substrates may be repaired or levelled off using Sika repair products/systems, e.g. Sikafloor®-2400 APCC, Sikafloor®-412 Level FR.

MIXING

Mix SikaCeram®-277 Rapidbond to liquid component, mixing continuously until a lump-free, creamy consistency is achieved.

APPLICATION

Spread the adhesive onto the substrate using a notched trowel. Size of notched trowel should be governed by the depth of knobs, grooves or ridges on the back of the evenness of the substrate. The minimum thickness of mortar bed shall be 3 mm after beating in. For heavy duty usage, the thickness shall be minimum 5 - 6 mm. Do not soak backing of tiles prior to applying mortar.

Dampen dry backings only as needed.

Float the mortar with pressure over area no greater than can be covered with tile while mortar remains plastic. Press firmly and immediately with a twisting action onto the freshly combed mortar, tap and beat tile into place to obtain 100% contact with tile and mortar bed with no voids in the mortar.

It is important to butter coat the back of the tiles to improve adhesion and avoid hollowness especially for large format tiles and tiles with grooves and ridges. In cases where the tile has no or very low water absorption rate, or where the the back of tile has been pre-coated with an impervious film that may cause debonding, an adhesion promoter/primer e.g. SikaLatex®-1000 can be applied.

Grouting after tile installation

Wait at least 4 hours before grouting with SikaCeram®-658 Coloured Grout CFG or with similar material.

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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