

## PRODUCT DATA SHEET

# SikaCeram®-204 Rapid

Fast-setting, low-dust tile adhesive for medium-sized ceramic tiles

## PRODUCT DESCRIPTION

SikaCeram®-204 Rapid is a fast-setting, low-dust, cementitious adhesive for medium-sized tiles. It can be spread up to 10 mm thick and is suitable for tiling on both floors and walls in interiors and exteriors. SikaCeram®-204 Rapid is classified as C2 FTE according to EN 12004.

## USES

SikaCeram®-204 Rapid is used for bonding the following types of tiles:

- All kinds of medium-sized ceramic tiles
- Earthenware tiles
- Terracotta tiles
- Extruded sandstone slabs and clinker tiles for paving
- Natural stone not susceptible to deformation or discolouration

SikaCeram®-204 Rapid is used on the following substrates:

- Gypsum and cement-based substrates
- Existing ceramic tiles in interiors
- Heated floors in interiors

SikaCeram®-204 Rapid is used for interior and exterior applications.

Please note:

- Do not use for any other applications that are not explicitly described in this Product Data Sheet.
- The Product may not be used on metal or wooden substrates
- The Product may not be used on existing ceramic tiles in exteriors

## CHARACTERISTICS / ADVANTAGES

- No vertical slip
- Extended open time
- Fast-setting
- Frost-resistant
- Dust-reduced

## ENVIRONMENTAL INFORMATION

- VOC emission classification GEV EMICODE EC1<sup>plus</sup>
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

## APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 12004:2007+A1:2012 Adhesives for tiles — Cementitious adhesives — All internal and external tiling

## PRODUCT INFORMATION

Chemical Base	Cementitious, polymer-modified mortar	
Packaging	Standard bag	20 kg
Colour	Grey	
Shelf Life	6 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging.	

Refer to the current Safety Data Sheet for information on safe handling and storage.

Product Declaration	EN 12004: C2 FTE
Colour	Powder

## TECHNICAL INFORMATION

Tensile adhesion strength	Initial	≥ 1.00 N/mm²	(EN 12004-2)
	Water immersion	≥ 1.00 N/mm²	
	Heat ageing	≥ 1.00 N/mm²	
	Freeze-thaw cycles	≥ 1.00 N/mm²	
Reaction to Fire	Class A1 <sub>fl</sub> / A1		
Thermal Resistance	Minimum	-20 °C	
	Maximum	+80 °C	
(After full curing)			
Slip resistance	≤ 0.5 mm with 4,8 l water per 20 kg bag		(EN 12004-2)

## APPLICATION INFORMATION

Mixing Ratio	Trowelable consistency	4.8 L	
Consumption	Notched trowel size	Consumption	
	6 mm	2.1 kg/m²	
	8 mm	2.6 kg/m²	
	10 mm	3.1 kg/m²	
	The material consumption depends on the nature of the substrate, type of tile, material consistency and application method. Effective consumption may therefore differ slightly.		
Layer Thickness	Maximum	10 mm	
Product Temperature	Maximum	+35 °C	
	Minimum	+5 °C	
Ambient Air Temperature	Maximum	+35 °C	
	Minimum	+5 °C	
Substrate Temperature	Maximum	+35 °C	
	Minimum	+5 °C	
Pot Life	At +20 °C	45 min	
Open Time	At +23 °C and 50 % RH	30 minutes	(EN 12004-2)
Applied Product Ready for Use	Can be walked on	3 hours	
	Grouting inside	3 hours	
	Grouting outside	48 hours	

## SYSTEM INFORMATION

System Structure	Layer	Product
	Primer for calcium sulphate substrates (gypsum plaster, gypsum fibreboard, calcium sulphate screeds)	Sika® Primer-11 W Sikafloor®-01 Primer Sikafloor®-03 Primer
	Primer for non- and low-absorbent substrate (existing ceramic tiles, mastic asphalt screeds)	Sika® Primer-11 W Sikafloor®-02 Primer
	Waterproofing layer (if required)	Sikalastic® waterproofing systems
	Waterproofing tape (if required)	Sika® SealTapes
	Tile adhesive	SikaCeram®-204 Rapid

## 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

The following conditions regarding substrate quality must be fulfilled or appropriate measures must be taken.

- Cementitious substrates must be sufficiently cured and dried (between 2 to 6 weeks).
- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
- All substrates must possess structural stability to bear the weight of the new tiling while providing a secure and firm base.
- Surfaces must be dry and clean, free of loose or friable particles and contaminants such as dust, dirt, oil, wax polish, grease, cement laitance, or efflorescence.
- When laying tiles on non-absorbent substrates or substrates with limited absorbency, such as existing tiles or painted surfaces, ensure these surfaces are stable, firmly bonded, and securely in place. Afterwards, use suitable degreasing or descaling products to clean the surface thoroughly and completely.
- For tiling in constantly damp or wet rooms, a suitable Sika® waterproofing product or system must be applied to the substrate before tiling. Contact Sika technical services for more information.

Carry out the following steps to prepare the substrate.

1. Prepare substrates mechanically using techniques such as sanding and scraping to remove all traces of any materials that could reduce the product's adhesion to the substrate.
2. Remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
3. Prefill any small surface defects and variations in evenness, profile or around exposed aggregate at least 24 hours before full adhesive application. Use SikaCeram®-204 Rapid to a maximum layer thickness of 10 mm.
4. Repair any larger and deeper defects using appropriate mortars from the Sika MonoTop® or Sikafloor® Level range.
5. Seal any cracks in the substrate using Sikadur® epoxy resins.
6. Lightly roughen smooth surfaces to improve adhesion.
7. Prime the substrate as necessary (refer to System structure).
8. Pre-wet the substrate if it has not been primed, if it is absorbent, or in hot temperatures. Do not add excessive water - the surface must only be slightly damp to the touch.
9. Carry out tests to confirm adequate preparation and adhesion.

### MIXING

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

1. Pour the specified quantity of clean water into a suitable mixing container.
2. Add the Product.
3. Mix using an electric paddle mixer at approx. 600 rpm for approx. 3 minutes.

The mixture is lump-free and homogenous.

## APPLICATION

SikaCeram®-204 Rapid is applied using a suitable notched trowel.

1. Apply sufficient Product to the prepared substrate at the required adhesive bed thickness. Ensure enough is applied to adequately wet the backs of the tiles.
2. Carry out tiling on the freshly applied Product. Note For tiles > 900 cm<sup>2</sup> (for example 30 × 30 cm), apply the Product to both surfaces.
3. Exert enough pressure on the tiles to ensure complete and even contact for optimum adhesion with the Product.
4. If a skin forms on the surface of the Product, immediately remove the adhesive layer with a trowel and discard. Then apply a fresh layer of the Product.
5. Adjust tiles if required.
6. Remove excess Product from the tile face and from between tile joints before it dries.
7. Protect from adverse weather conditions, such as high or low (< +5 °C) temperatures, rain, draughts, and direct exposure to sun for at least 24–48 hours from application.

## CLEANING OF TOOLS

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

## 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 the 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

SikaCeram®-204 Rapid  
December 2025, Version 01.01  
021710102000245264

SikaCeram-204Rapid-en-IE-(12-2025)-1-1.pdf

