

PRODUCT DATA SHEET

OPTIROC TILE ADHESIVE

High Performance Flexible Cementitious Tile Adhesive with C2TES1 classification

DESCRIPTION

Optiroc Tile Adhesive is a high performance, polymer-containing, water resistant one-part cementitious tile adhesive that is formulated with high resistance cements, selected silicon / quartz mineral charges and specific additives. Optiroc Tile Adhesive is used as a thin bed tile adhesive for permanent fixing of ceramic tiles, homogeneous tiles, mosaics, marble and granite tiles for wall and floor tiling both internally and externally. It has a C2TES1 classification according to BS EN 12004 and ISO 13007.

USES

- Bonding of high absorption ceramic tiles, earthenware, extruded and refined porcelain tiles
- Bonding of large size tiles used in industrial environment, wet areas, swimming pools, facades
- Suitable for bathrooms, kitchens, balconies, etc.
- Indoor and outdoor application over concrete, cement mortars, bricks and plaster
- Suitable for moisture tolerant natural stone
- Suitable to tile directly on various Sika waterproofing products
- Suitable for relatively flexible substrates

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Grey / White powder
Shelf Life	6 months from date of production
Storage Conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture

TECHNICAL INFORMATION

CHARACTERISTICS / ADVANTAGES

- Excellent pull-off strength.
- Easy to mix and use
- Excellent workability and thixotropic consistency
- Water resistant
- Extended open time
- Single component system
- No sagging
- Soaking of tiles in water before installation is not required

APPROVALS / STANDARDS

Approved product in HDB Approved Material List

Tensile Adhesion Strength	Initial	≥ 1.0 N/mm ²	EN 1348
	After water immersion	≥ 1.0 N/mm ²	
	After heat aging	≥ 1.0 N/mm ²	
	Open time @30 mins	≥ 1.0 N/mm ²	
Slip Resistance	≤ 0.5 mm		BS EN 1308
Transverse deformation	≥ 2.5 mm		BS EN 12002

APPLICATION INFORMATION

Mixing Ratio	6.0 to 7.0 L of water per 25 kg bag
Consumption	1.0 – 1.3 kg/m ² /mm * This only serves as a guideline. It is highly recommended to run a trial on site to determine the actual coverage
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Pot Life	~ 45 mins
Open Time	30 mins
Adjustability Time	~ 20 mins
Fresh mortar density	~1.50 kg/l (25 °C)

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.

IMPORTANT CONSIDERATIONS

When mixing Optiroc Tile Adhesive, do not exceed the minimum and maximum recommended water dosage. Apply only to sound, level and prepared substrates. Do not exceed the minimum and maximum layer thickness.

Protect freshly applied material from rain, wind, etc. Make a test area prior to carrying out any work with natural stones.

White version of tile adhesive is recommended for translucent natural stone tiles.

It is usually not necessary to pre-dampen the tiles in water.

For gypsum board substrate, primer need to be applied, please contact Sika Technical Department.

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

SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be properly cured, structurally sound,

free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.

Use water-jet washing or blastcleaning as necessary in order to remove all traces of contaminants that could affect the product's adhesion to the substrate.

Ensure surface defects are properly repaired and substrate is level to receive tiles. For larger areas of repairs, appropriate mortars from the Sika MonoTop® should be used. Cracks in substrates must be sealed appropriately e.g. with Sikadur epoxy resins.

For non-absorbent or substrates with limited absorbency, e.g. existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all structurally sound and firm, then use suitable degreasing/descaling products to thoroughly clean the surface.

For applications in tropical hot climates and on absorbent substrates, it is necessary to pre-wet the substrate immediately prior to the product application, but careful to avoid any ponding / standing water on the surface, which must not be damp to touch and it must be saturated surface dry (SSD).

MIXING

Mix the 25 kg bag of Optiroc Tile Adhesive with 6.0 to 7.0 litres of using an electric mixer at low speed (~500 rpm) in a clean bucket for 3 to 5 minutes to obtain a smooth paste free of lumps.

After mixing, leave the product to stand and 'mature' for about 1 minute in the mixing container and then briefly stir the mix for another minute prior to application. The obtained mix should be very creamy, easily spreadable and thixotropic.

APPLICATION

Optiroc Tile Adhesive is applied using a notched trowel with sufficient material to ensure complete wetting of the back of the tiles. Tiling is carried out by exerting an adequate pressure to ensure contact with the adhesive and complete coverage of adhesive and optimum bonding with the back of the tile. If a film is seen to form on the adhesive surface, the adhesive has been left for too long. Remove the adhesive immediately and re-apply a fresh layer of material.

CLEANING OF TOOLS

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

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

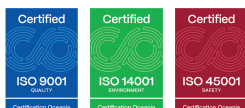
The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. 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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