

PRODUCT DATA SHEET

OPTIROC TILE ADHESIVE DW SET

HIGHLY FLEXIBLE POLYMER-MODIFIED CEMENTITIOUS TILE ADHESIVE

DESCRIPTION

Optiroc Tile Adhesive DW Set is a two-component highly flexible high performance polymer-modified tile adhesive for fixing all types and sizes of tiles onto heavy-traffic areas and areas subjected to vibration. It is also ideal for tiling on dry wall system. Optiroc Tile Adhesive DW Set is tested to a C2TES2 classification according to BS EN 12004 and ISO 13007.

USES

- Bonding of natural stone, compressed marble, ceramic, porcelain, mosaic and glass tile on all types of substrates including concrete/sand render, screeds, brick, block works, and flexible or bendable substrates such as drywalls

- Used for interior and exterior applications in wet areas, bathrooms, swimming pools, balconies, etc.
- Ideal in areas subject to constant vibration from structural movement
- Suitable for areas subject to heavy traffic
- All tiling and marble laying in residential and commercial building for both floor and wall installations

CHARACTERISTICS / ADVANTAGES

- Excellent water and impact resistance
- Non-toxic and non-flammable
- Highly deformable to withstand bending
- High bond strength
- Highly thixotropic that prevent slump/slip on vertical applications
- High area coverage
- Not affected by prolonged contact with water

PRODUCT INFORMATION

Packaging	Part A	20 kg powder
	Part B	5 L liquid
Appearance / Colour	Part A	Grey powder
	Part B	Milky white liquid
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

Tensile Adhesion Strength	Initial	$\geq 1.0 \text{ N/mm}^2$	(EN 1348)
	After water immersion	$\geq 1.0 \text{ N/mm}^2$	
	After heat aging	$\geq 1.0 \text{ N/mm}^2$	
	Open time @ 30 mins	$\geq 1.0 \text{ N/mm}^2$	
Transverse deformation	$\geq 5.0 \text{ mm (S2)}$		BS EN 12002

APPLICATION INFORMATION

Mixing Ratio	0.25
Fresh Mortar Density	~1.50 kg/l (25 °C)
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
Layer Thickness	Min. 4 mm / Max. 10 mm
Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Pot Life	~45 min
Open Time	30 min
Adjustability Time	~20 min

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

Pour half of the liquid Part B into a container, gradually add powder Part A and start mixing using a mechanical mixer. Proportionally add the balance powder Part A and liquid Part B into the mix. Mix for 3–7 minutes until a homogeneous, lump-free mixture is obtained.

Addition of water is not required or allowed.

APPLICATION

Optiroc Tile Adhesive DW Set is applied using a notched trowel with sufficient material to ensure com-

plete wetting of the back of the tiles. Tiling is carried out by exerting adequate pressure to ensure full contact with the adhesive and complete coverage of material 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.

IMPORTANT CONSIDERATIONS

Do not dose additional water to the mix.

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. Please consult the tile supplier.

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

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.

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.

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.

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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