

## PRODUCT DATA SHEET

# Optiroc Tile Adhesive HP

HIGH PERFORMANCE, PREPACKED CEMENTITIOUS TILE ADHESIVE

### DESCRIPTION

Optiroc Tile Adhesive HP is a high performance, cementitious water-resistant tile adhesive that is specially formulated for floor and wall tiling on concrete substrate and internal and external applications. The product is ideal for installing ceramic tiles, homogeneous tiles, mosaics, marbles and granites.

### USES

- Optiroc Tile Adhesive HP can be used by adding the required water content and mixing with either a hand-held or mechanical mixer, producing a homogeneous paste with a good workability.
- Optiroc Tile Adhesive HP can be used as thin bed or thick bed adhesive in toilets, kitchen or rendered beddings, rendered brick-wall/block-wall and pre-cast components.

### CHARACTERISTICS / ADVANTAGES

- Water resistant, can be used in wet areas such as toilets, kitchens
- Excellent pull-off strength
- Soaking of tiles in water before installation is not required
- Consistent quality
- Convenient in placing, handling, mixing and application
- Weather resistant and durable

### PRODUCT INFORMATION

<b>Packaging</b>	25 kg per bag
<b>Appearance / Colour</b>	Grey / White powder
<b>Shelf life</b>	9 months from date of production if stored properly in unopened, original packaging
<b>Storage conditions</b>	Dry, cool, shaded place
<b>Density</b>	1,300–1,600 kg/m <sup>3</sup> (fresh mortar)
<b>Tensile Adhesion Strength</b>	<p>≥ 1 N/mm<sup>2</sup> (28 days)</p> <p>Tensile adhesion strength after water immersion: ≥ 1 N/mm<sup>2</sup> (28 days)</p> <p>Tensile adhesion strength after heat aging: ≥ 1 N/mm<sup>2</sup> (28 days)</p> <p>Open time after not less than 30 mins (Tensile adhesion strength): ≥ 0.5 N/mm<sup>2</sup></p>

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Water : powder = Approx. 1 : 3.5-4.1 (parts by weight) Approx. 6 to 7 litres of clean water per 25 kg bag
<b>Consumption</b>	25 kg bag per ~6-7 m <sup>2</sup> (based on 2 mm mortar thickness) The consumption is depended on the surface profile and roughness of the substrate as well as on the size of the tiles and the placing technique (simple placing or back-buttering).
<b>Yield</b>	1 bag yields approx. 16.2 litres of mortar Approx. 62 bags required for 1 (one) m <sup>3</sup> of mortar
<b>Substrate Temperature</b>	Minimum 8 °C Maximum 40 °C
<b>Pot Life</b>	30–45 min (at 27 °C / 65 % r.H)
<b>Open time</b>	<b>Waiting time before grouting:</b> <ul style="list-style-type: none"><li>▪ For wall—after 7 to 8 hours (depending on temperature)</li><li>▪ For floor—after 24 hours</li><li>▪ Open to full traffic—after 14 days</li></ul>
<b>Adjustability Time</b>	Approx. 20 min

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface must be clean, free from grease oil and loosely adhering particles. Absorbent surfaces have to be thoroughly saturated with water prior application.

### APPLICATION

- Pour powder Optiroc Tile Adhesive HP into 6–7 L clean water containers.
- Mix thoroughly using mechanical mixer for 3–5 min until a homogenous lump-free paste is achieved. Allow the mix to stand for 1–2 min and thoroughly re-mix for another 1 min before using.
- Pour a little tile adhesive on the substrate. Use a notched trowel spread tile adhesive on the substrate.
  - + For floor: spread out the floor surface mortar
  - + For wall: plastering horizontally
- To increase adhesion and coverage should be constructed at layer of mortar at the back of the tiles.
- Place the tiles on mortar, firm pressure to ensure the tiles are clinging to the mortar.
- Any adjustment of tile should be done within 20 min after application.
- The wet mix should be used within the 30 to 45 mins, depending on the ambient temperature.

### CLEANING OF TOOLS

Remove non-hardened Optiroc Tile Adhesive HP products from tools and equipment with water. Hardened material can only be removed mechanically.

## 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

**Ecology:** Do not dispose into water

**Transportation class:** Non-hazardous

**Waste disposal:** According to local law

**Important notes:** Optiroc Tile Adhesive HP is cement base and is therefore alkaline. Suitable precautions should be taken to minimize direct contact with the skin. If the material gets into the eyes, rinse immediately with clean water and seek medical attention.

## 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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