



BUILDING TRUST



PRODUCT DATA SHEET

SUPRACOAT HIFIX

Tile adhesive for fixing stones and tiles onto matured rendering / screed

DESCRIPTION

SUPRACOAT HIFIX is formulated for tiling work with good adhesion and good workability. It is suitable for fixing ceramics and natural stone slabs tiles onto walls and floors.

USES

- Installation of tiles and natural stones onto concrete render, blockwork and rendered brickwork surface.
- For walls and floors in both interior and exterior applications
- Where extra strength is required (eg. high movement areas such as walls, exterior application, dense tiles such as vitrified, porcelain, marble or granite) it is necessary to mix SUPRACOAT HIFIX with latex (eg. SUPRACOAT SUPRALATEX-66, SikaLatex®-118 EM, SUPRABOND BONDING LIQUID or Davco Davelastic 98). Trials are recommended to determine suitability of use.

FEATURES

- Ready for use by just adding water
- Factory-packed in convenient size bags for easy handling
- Increase in flexural strength (when mixed with latex)

PRODUCT INFORMATION

Packaging	<ul style="list-style-type: none">▪ 20 kg bag▪ 40 kg bag
Appearance and colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Keep away from direct sunlight, rain, water and moisture.

TECHNICAL INFORMATION

Tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2$	(BS EN 1348:2007)
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APPLICATION INFORMATION

Mixing ratio	<ul style="list-style-type: none">▪ 5.2–5.6 L of water per 20 kg bag▪ 10.4–11.2 L of water per 40 kg bag												
Consumption	<p>This depends on the level, profile and surface roughness of the substrate, the size of the tiles and the technique of placing (simple placing or "back"-buttering).</p> <p>As a guide, in kilogram of powder per m² on flat surfaces:</p> <table border="1"><thead><tr><th>Tiles size</th><th>Coverage</th><th>Trowel size</th></tr></thead><tbody><tr><td>Mosaics and small tiles</td><td>~2.0–3.0 kg/m²</td><td>3 mm × 3 mm notched trowel</td></tr><tr><td>Normal size tiles (30 cm × 30 cm)</td><td>~5.0–5.5 kg/m²</td><td>6 mm × 6 mm notched trowel</td></tr><tr><td>Large size tiles up to 3600 cm² (internal floors)</td><td>~10.0–11.0 kg/m²</td><td>12 mm × 12 mm notched trowel</td></tr></tbody></table> <p>The consumption above may only serve as a guide. It is highly recommended to carry-out trials on site to determine the actual coverage.</p>	Tiles size	Coverage	Trowel size	Mosaics and small tiles	~2.0–3.0 kg/m ²	3 mm × 3 mm notched trowel	Normal size tiles (30 cm × 30 cm)	~5.0–5.5 kg/m ²	6 mm × 6 mm notched trowel	Large size tiles up to 3600 cm ² (internal floors)	~10.0–11.0 kg/m ²	12 mm × 12 mm notched trowel
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Pot Life	~1 hour												
Open Time	~20 minutes												
Curing time	~24 hours												

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

- Allow sufficient movement to BS 5385: Part 1-3.
- Joint width for wall: 1–3 mm, floor: ≥ 3 mm.
- Movement joints according to BS 5385: Part 1-3.
- Joints shall be incorporated at the perimeter (between floor to wall, and wall to wall), and at the intersection of dissimilar materials, including areas subjected to expansion/contraction.
- Joints shall also be incorporated on top of existing movement/expansion joints and around columns, plinths, drains, or any singular elements that represents discontinuity in the tiles.
- Due to ambient conditions, the "skin-over" of the adhesive will occur after 5–10 minutes. Therefore, precautions should be taken to ensure the adhesive is applied in a small area that can be covered with tiles within this time limit.
- Skin-over can be checked by placing the tip of your index finger lightly to the adhesive bed surface. If the adhesive does not stick to your finger, skin-over has already occurred. To break the skin, re-towel in opposite direction. Fix stones / tiles / mosaics within 20 minutes of applying adhesive and check coverage by occasionally by lifting the stones / tiles / mosaics.
- Best practice is achieved by limiting tiling heights to maximum 3 metres. The recommended maximum weight for both the tiles / stones and adhesive should not exceed 32 kg/m². For higher demands, additional support (e.g. mechanical fixing) is highly recommended for safety purposes.

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

All surfaces must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compound and any other loose or contaminating materials.

Dusty concrete or masonry should be swept clean and dampened with water prior to the application of adhesive.

Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filling of blowholes / voids, etc. must be carried out using appropriate repair material from the SikaTop® or Sika® MonoTop® range of products.

Painted surface must be scabbled/abraded to expose the original substrate. Newly rendered/screeded surface must be thoroughly cleaned prior to tiling and have a wood float finish.

Old rendered/screeded surface must be thoroughly cleaned prior to tiling and have a wood float finish. New concrete must be allowed to cure for at least 1 month and have a wood float finish. Steel trowel finished concrete must be mechanically abraded prior to tiling.

Old concrete surface must be thoroughly cleaned prior to tiling. Make sure all release agents are removed from concrete surfaces, especially on tilt-up slabs.

Screeds should be allowed to dry out as slowly as practicable after curing to reduce the risk of curling. Cement-sand and fine concrete levelling screeds should be cured for at least 7 days and be subjected to continuous air drying after curing for at least 2 weeks before tiles are laid. Please refer to BS 5385 or MS 1294.

Ensure screed/render level is plumb to achieve optimum adhesive bed thickness.

MIXING

Add SUPRACOAT HIFIX to clean water or latex. Mix continuously in circular motion using low-speed mechanical mixer until lump-free, creamy consistency and uniform paste is achieved. Allow the mix to stand for 5 minutes and remix prior to use. Do not add more water.

APPLICATION

Spread the adhesive onto the substrate using either a 6 mm x 6 mm notched trowel for wall tiling, or a 12 mm x 12 mm notched trowel for flooring tiling. The choice of trowel should be governed by the size of the tiles, depth of knobs, grooves or ridges on the back of the tiles and the evenness of the substrate.

Use the flat side of the notched trowel to spread the mix onto the receiving surface at approximately 1m² at a time. Then, use the notched side of the trowel to apply the required amount of the mix in one direction. Press the tile in perpendicular motion and tapped into position to ensure positive contact with adhesive and adjust within 5–10 minutes.

For optimum bonding and better coverage between the adhesive and tile, apply a layer of adhesive at the back of the tile and follow the above-mentioned instructions.

Ensure that the adhesive is wet when the tiles are laid. Do not allow the adhesive to skin over prior to tiling. Should a skin have formed, break the skin by re-trowelling the adhesive in opposite direction. Ensure there are no voids under the tiles.

CLEANING OF EQUIPMENT

Tile adhesive and tools can be cleaned with water while it is still wet. Hardened material can be removed mechanically.

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Product Data Sheet

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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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