

PRODUCT DATA SHEET

SikaCeram[®]-90 HIFIX

Cementitious thin-bed mortar for laying AAC/ALC blocks, panels, ceramic tiles and stones

DESCRIPTION

Formerly SUPRACOAT THIN BED ADHESIVE and SUPRACOAT HIFIX.

SikaCeram[®]-90 HIFIX is a polymer-modified cementitious adhesive formulated for excellent adhesion and workability. It is suitable for fixing ceramic tiles and natural stone tiles onto walls and floors, as well as for the laying of Aerated Lightweight Concrete (ALC) and Autoclaved Aerated Concrete (AAC) blocks and panels.

USES

SikaCeram[®]-90 HIFIX is suitable for the installation of ceramic tiles and natural stones onto the following substrates:

- Concrete surfaces
- Cement-sand screed and cement render
- Rendered brickwork
- Lightweight concrete blocks (to be primed with Sika[®] Primer-11 WMY)

It is suitable for:

- Laying of AAC and ALC blocks and panels
- Wall and floor applications
- Interior and sheltered exterior areas

For applications requiring higher bond strength or improved flexibility, such as:

- High movement areas
- External applications
- Dense tiles such as vitrified, porcelain, marble or granite

SikaCeram[®]-90 HIFIX should be mixed with the SikaLatex[®] range of latex additives.

Trial applications are recommended to determine suitability for specific site conditions.

CHARACTERISTICS / ADVANTAGES

- Ready for use — just add water
- Factory-packed in convenient bag sizes for easy handling
- Good adhesion to cementitious substrates
- Improved flexural strength when mixed with SikaLatex[®] range of latex additives

PRODUCT INFORMATION

Packaging	40 kg bag
Appearance / 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	≥ 0.5 N/mm ²	(BS EN 1015) (BS EN 1348:2007)
----------------------------------	-------------------------	-----------------------------------

APPLICATION INFORMATION

Mixing Ratio	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 ceramic 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 ceramic 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
Tiles size	Coverage	Trowel size											
Mosaics and small ceramic 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											
Layer Thickness	10 mm max.												
Pot Life	~1 hour												
Open Time	~20 minutes Under unfavourable conditions (direct sun, high ambient temperature and strong wind), the open time may be shorter.												
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

- Follow the recommended water dosage when mixing SikaCeram®-90 HIFIX. Do not exceed the maximum recommended water dosage or go below the minimum recommended water dosage.
- Apply only to sound, prepared substrates. Do not exceed the maximum layer thickness.
- Do not attempt to dampen the applied adhesive to extend the open time as this interferes with the bond performance.
- Movement joints (width of 6–10 mm) must be provided to allow for movement between adjacent building components, over existing joints in the substrate, around fixed elements in the floor (e.g. columns), at internal vertical corners, around floor perimeters, in internal floors (every 6–9 m), in external floors (every 4.5 m), on wall surfaces at storey heights horizontally (3–4.5 m apart vertically). Movement joints should go right through the tile adhesive bed to the background and be kept free from dirt and adhesive droppings.
- Porcelain tile installation requires the addition of SikaLatex® range of latex additives to SikaCeram®-90 HIFIX.
- For application over unconventional substrates and where extra strengths are required, SikaCeram®-90 HIFIX must be added with the SikaLatex® range of

latex additives.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 the adhesive.
- Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filling of blowholes / voids, etc. must be carried out using SikaTop® or Sika® MonoTop® range of products.
- If the substrate is very porous, and/or if the temperature is high and the relative humidity is low, it is advisable to pre-dampen the surface (do not leave any standing water) or apply Sika® Primer-11 WMY. Please contact Sika local representative for further information on about the recommended primer for the specific substrate.
- The maximum variation in the plane of the concrete must not exceed 5 mm in 3 metres for floors and 4

mm in 2 metres for walls.

- 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.
- Newly rendered / screeded surfaces must be allowed to dry out as slowly as practicable after curing to reduce the risk of curling and shrinkage. 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 the tiles are laid. Please refer to BS 5385 or MS 1294.
- To ensure the render/screed level is plumb to achieve optimum adhesive bed thickness.
- Wash and remove the release powders at the back of tiles.

MIXING

Mix thoroughly with the recommended amount of clean water or SikaLatex® range of latex additives for a minimum of 3 minutes until a homogeneous, lump-free consistency is achieved. Allow the mixture to stand in the container for approximately 5 minutes, then remix for about 15 seconds before use.

SikaCeram®-90 HIFIX must be mechanically mixed using a forced-action mixer or in a clean container using a low-speed electric drill fitted with a suitable mortar mixing paddle (< 500 rpm).

APPLICATION

Blocks and Panels Application

Spread SikaCeram®-90 HIFIX using a notched trowel to the entire surface of the block to achieve a joint thickness of approximately 2 mm after bedding. The adhesive should be applied gradually as work progresses but not more than 2 blocks at a time. Adhesive droppings should not be reused. A bed thickness of approximately 2 mm should be maintained after bedding.

Tiles Application

SikaCeram®-90 HIFIX is spread onto the substrate using a proper and suitable notched trowel. 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.

Sika Kimia Sdn. Bhd.

Lot 689, Nilai Industrial Estate,
71800 Nilai, Negeri Sembilan D.K.
Malaysia
Phone: +606-7991762
e-mail: info@my.sika.com
Website: www.sika.com.my



Product Data Sheet

SikaCeram®-90 HIFIX
March 2026, Version 01.01
021710101000263192

Use the flat side of the notched trowel to spread the mix onto the receiving surface at approximately 1 m² 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 a perpendicular motion and tapped into position to ensure positive contact with the adhesive and adjust within 20 minutes.

For tile with grooves or ridges, it is necessary to skim a layer of adhesive / butter coat the back of the tiles.

This is to ensure adequate material and good bonding between the adhesive and tile.

Ensure that the adhesive is wet when the tiles are laid.

Do not allow the adhesive to skin-over prior to tiling.

Should skinning occur, break the skin by re-trowelling the adhesive in the opposite direction.

Do not spread more than 1 m² at any one time. Fix tiles within 20 minutes of applying the adhesive and check the contact by occasionally lifting the tiles. Ensure there are no voids under the tiles and the edges between the tiles are even (lippage) with a consistent joint width.

The final adhesive bed thickness of SikaCeram®-90 HIFIX should be up to 10 mm(max). After completion of tiling works, do not disturb the tiled surface for at least 6–8 hours at +20 °C.

For external areas, protect from direct sunlight and rain by means of a shelter. It is the user's responsibility to determine the condition and suitability of all surfaces prior to application.

GROUTING

Tile joint grouting should preferably be carried-out at least 24 hours after completion of tiling or until the adhesive has set and dry sufficiently. Setting may be delayed on dense or impervious surface.

CLEANING OF TOOLS

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

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.

SikaCeram-90HIFIX-en-MY-(03-2026)-1-1.pdf