

PRODUCT DATA SHEET

SikaCeram[®]-50 Tilofix

Polymer modified cementitious floor and wall tile adhesive (Type-1 'T,C1T Adhesive)

DESCRIPTION

SikaCeram[®]-50 Tilofix is a polymer modified, cementitious, normal setting, self curing, floor and wall tile adhesive. Typically used for small, medium sized ceramic tiles on floor / wall and vitrified tiles upto 4 square feet on floor in residential environments. Suitable for bonding absorbent ceramic and vitrified tiles to absorbent construction material substrates. Indoor use.

USES

Bonding the following types of tiles for floor and wall:

- Ceramic
- Earthenware

Bonding the following types of tiles for floor:

- Vitrified

Bonding tiles for the following applications:

- Balconies
- Kitchens
- Residential environments
- Terraces

CHARACTERISTICS / ADVANTAGES

- Bonding ceramic tiles on floor and wall
- Bonding vitrified tiles upto 4 square feet on floor
- Smooth application
- Suitable for most cementitious substrates
- Suitable for absorbent ceramic and vitrified tiles
- Easy to use, only water to be added
- Better bond than conventional cement based mortar
- Self curing

APPROVALS / STANDARDS

Conforms to IS 15477-2019 , Type-1 'T' Adhesive

Conforms to EN12004-2:2017, C1T Class Adhesive

PRODUCT INFORMATION

Chemical base	Portland cement, polymers and selected aggregates
Packaging	20 kg bag and 40 kg bag
Appearance / Colour	Grey powder
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.

TECHNICAL INFORMATION

Tensile adhesion strength	Requirement as per Standard	Value Observed	(IS 15477-2019)
	$\geq 0.5 \text{ N/mm}^2$	$\geq 1 \text{ N/mm}^2$	

	Requirement as per Standard	Value Observed	(EN12004-2:2017)
	≥ 0.5 N/mm ²	≥ 1 N/mm ²	

Slip resistance	Requirement as per Standard	Value Observed	(EN12004-2 :2017/IS 15477-2019)
	≤ 0.5 mm	≤ 0.3 mm	

APPLICATION INFORMATION

Mixing ratio	Packing	Water to powder ratio by weight	Quantity of water per bag
	20 kg	0.23–0.25	4.6 – 5.0 Lt
	40 kg	0.23–0.25	9.2 –10.0 Lt

Consumption	Consumption is dependent on the substrate, surface profile, roughness and application technique. As a guide for a single adhesive layer:		
	Size of tiles	Notched trowel size	Powder consumption
	Small	6 mm	4.0–4.5 kg/m²
	Medium	8 mm	5.5–6.0 kg/m²
	Large	10 mm	7.5–8.0 kg/m²
	COVERAGE:		
	Pack	Area covered	
20 kg	50–55 sqft for 3 mm thickness		
40 kg	100–110 sqft for 3 mm thickness		

Layer thickness	3 mm min.	
Ambient air temperature	+5 °C min. / +45 °C max.	
Substrate temperature	+5 °C min. / +45 °C max.	
Maturing time	~3 minutes	
Pot life	~110 minutes	(EN 12004-2 / ISO 13007-2)
Open time	> 15 minutes	(EN 12004-2 / ISO 13007-2)

Applied product ready for use	Use	Waiting time
	Grouting floors / walkable	24–36 hours
	Grouting walls	4–6 hours
	Full traffic	~14 days

Values determined at laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures increase them.

IMPORTANT
Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, for at least 12–24 hours from application.

Adjustability time	~8 minutes
Fresh mortar density	1.8 ± 0.2 kg/L

SYSTEM INFORMATION

System structure	Sika provides a full range of system solution in Tile setting. Please refer to Building Finishing user manual to choose right products from SikaCeram® tile adhesives, SikaCeram® cementitious tile grouts, SikaCeram® epoxy tile grouts, SikaCeram® floor leveler for usage in different applications.
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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.

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

IMPORTANT

Gypsum plaster and anhydrite screed substrates must have a maximum moisture content of 0.5 %.

IMPORTANT

Do not apply on metal or wood surfaces.

- Cementitious substrates must be sufficiently cured and dried (2–6 weeks).
- All substrates must be structurally sound, able to support the weight of the new tiling and provide a stable and securely fixed background.
- Surfaces shall be clean, dry, free of any loose or friable particles, contaminants such as dust, dirt, oil, wax, polish grease, cement laitance or efflorescence.
- Use adequate preparation techniques to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Smooth surfaces should be roughened lightly to improve adhesion.
- To confirm adequate surface preparation and coating adhesion, carry out a small trial before full application.
- Any small surface defects and variations in level, profile, or around exposed aggregates can be prefilled and levelled with an additional layer of SikaCeram®-50 Tilofix to a maximum thickness of 5 mm, applied at least 24 hrs before full adhesive application.
- For larger and thicker areas of surface reprofiling and making good, use appropriate mortars from the Sika MonoTop® or SikaCeram® Floor Leveler range.
- Identify cracks in substrates and seal appropriately with Sikadur® epoxy resins.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application. Avoid any ponding / standing water on the surface. Surface must not be damp to touch.
- If a waterproofing layer is required, cement-based and acrylic-based Sika® waterproofing product / system must be applied to the substrate before tiling.

MIXING

1. Pour the recommended amount of clean cold water into a suitable, clean mixing container.
2. Slowly add SikaCeram®-50 Tilofix powder to the wa-

ter and then mix thoroughly using a low speed (< 500 rpm) drill mixer until the material is fully mixed and lump free. Avoid entraining air into the mix by over mixing.

3. Allow the product to 'mature' for 2–3 minutes before remixing for 30 seconds.
4. The finished mix has a creamy consistency, uniformly coloured and is easy to apply and spread.

APPLICATION

IMPORTANT

Avoid application in direct sunlight and/or strong wind / draughts.

1. SikaCeram®-50 Tilofix is applied using a suitable square notched trowel. Apply adhesive to the prepared fixing surface with the appropriate trowel and comb to the required bed thickness. Coverage on the back of the tiles should be 100 %.
2. Tiling must be carried out on freshly applied adhesive, exerting adequate pressure to ensure complete and uniform contact with the adhesive for optimum bond.
3. If a skin forms on the surface of the adhesive, immediately remove the adhesive layer with the trowel, discard material and apply a fresh layer of SikaCeram®-50 Tilofix adhesive.
4. Adjust tiles if required.
5. Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.
6. After the required waiting time apply the appropriate grout into the tile joints.
7. SikaCeram®-50 Tilofix is ideal for laying absorbent ceramic and vitrified tiles up to 900 cm² (e.g. 30 × 30 cm), for indoor application only. Tiles > 900 cm² (e.g. 30 × 30 cm), the double-spreading (buttering) technique is always recommended.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recom-

mendations, 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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Product Data Sheet

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