

PRODUCT DATA SHEET

SikaTile®-470 XXL Big Slab

PREMIUM HIGH-PERFORMANCE DEFORMABLE TILE ADHESIVE FOR BIG SLAB

DESCRIPTION

SikaTile®-470 XXL Big Slab is a high-performance, premium tile adhesive with enhanced deformability, formulated with advanced polymers. This single-component, pre-packed mortar blends cement, precisely graded sand, and specialized additives, requiring only water for effortless application.

USES

- Ideal for extra-large tiles, granite, and natural stone
- Suitable for various substrates, including concrete, mortar, cement render, and existing tiles.
- Applicable for both walls and floors.
- Suitable for interior and exterior use.
- Compatible with waterproof membranes.

FEATURES

- Flexible: Suitable for tiling on deformable substrates such as gypsum boards, Viva boards, and fiber cement sheets, depending on weight and size (please contact us for more details).
- Ideal for areas with heavy traffic and high vibration.
- Reduced vertical slipping.
- Ultimate bond strength.
- Extended open time provides more working, adjusting, and tiling time
- Smooth application.
- Eco-Friendly and Low VOCs.

CERTIFICATES AND TEST REPORTS

- EN 12004 C2TES1
- ANSI 118.4

PRODUCT INFORMATION

Composition	Hydraulic binder, mineral filler, and additives
Packaging	25 kg/ bag
Appearance and colour	Grey powder
Shelf life	12 months from the date of production if stored in undamaged and unopened, original sealed packaging
Storage conditions	Store in dry condition and protected from direct sunshine
Density	~1.3 kg/L
pH-Value	12 ± 1

TECHNICAL INFORMATION

Tensile adhesion strength	At 28 days		EN 12004 C2E ISO 13007
	Initial	≥ 1.0 MPa	
	Water immersion	≥ 1.0 MPa	
	Heat aging	≥ 1.0 MPa	
	Open time bonding after 20 min	≥ 0.5 MPa	
	Extended open time after not less than 30 min	≥ 0.5 MPa	
Slip resistance	≤ 0.5 mm (T)		
Transverse deformation	2.5 mm ≤ S < 5 mm (S1)		
Shear adhesion strength	Glazed Wall Tile		ANSI 118.4
	7 days	> 2.07 MPa	
	7 days water immersion	> 1.38 MPa	
	Porcelain Mosaic Tile		
	1 day	> 0.5 MPa	
	7 days	> 1.38 MPa	
	7 days water immersion	> 1.03 MPa	
	28 days	> 1.38 MPa	
	12 weeks	> 1.38 MPa	
	Quarry Tile		
	28 days	> 1.03 MPa	

APPLICATION INFORMATION

Mixing ratio	Approximate 6.25-7.0 litre water per bag 25 kg		
Consumption	Consumption depends on the substrate surface profile and roughness, the size of the tiles and the joints between them, and the application technique. As a guide		
	Size of Tiles	Notched Trowel	Consumption
	Big Slab	size of 10 mm (square)	~5.5 - 6.5 kg / m ²
	Note :		
	1. A Big Slab is defined as a tile where at least one side measures greater than 150 cm. 2. This is an average calculation. Actual usage may differ from the estimate. Due to the different surface conditions. Surface absorption and the purpose of the individual's use. 3. For the tile size larger than 40x40 cm, apply tile adhesive on the surface and on the back of the tile.		
Ambient air temperature	+5°C to +35°C		
Substrate temperature	+5°C to +35°C		
Pot Life	180 - 240 minutes (at 25°C)		
Open Time	25 - 30 minutes (at 25°C)		
Applied product ready for use	Use	Waiting time	
	Grouting on floors / walkability	~24 hours	
	Grouting on walls	4 - 6 hours	
Adjustability time	15 - 20 minutes (at 25°C)		

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.

LIMITATIONS OF USE

- **Waterproofing Requirement:** If a waterproofing layer is needed under the tiles, cement-based and acrylic-based waterproofing systems are suitable for use with SikaTile®-470 XXL Big Slab. Please refer to the relevant Sika Product Data Sheets for detailed information.
- **Natural Stone Tiles:** Always perform a small test application before full installation.
- **Do not apply SikaTile®-470 XXL Big Slab in the following cases:**
 - On metal or wood surfaces.
 - On existing tiles for outdoor application.
 - For any situations or applications not explicitly described in this Product Data Sheet.
- **Effect of Temperature:** Higher temperatures or exterior applications will reduce the open time, waiting time, and pot life of the product.

IMPORTANT CONSIDERATIONS

- Use a proper notched trowel to spread the adhesive onto the substrate with the flat side of the trowel until it is smooth.
- Use the notched side of the trowel to create an even adhesive bed. The minimum bed thickness is 2 mm for the wall and 3 mm for the floor. (size depends on the thickness of tiles)
- Once the tile adhesive is dry before grouting with SikaTile Tile Grout.
- Refer to the Safety Data Sheet.

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 Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be Saturated Surface Dry (SSD), 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.
- Any small surface defects and variations in level, profile, or around exposed aggregates, for example, can be prefilled and levelled with an additional layer of SikaTile®-470 XXL Big Slab, to a maximum thickness of 15 mm, applied at least 24 h before the tiling is laid. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and

- sealed appropriately, e.g., with Sikadur epoxy resins.
- New concrete must be allowed to cure for at least 28 days.
- New render must be allowed to cure for at least 7 days per 1 cm of thickness.
- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces, etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface. Use primer if necessary.
- For applications in hot climates/environments and /or on absorbent substrates, thoroughly pre-dampen the surface immediately before the product application, but avoid any ponding / standing water on the surface, which must not be damp to the touch and not with a dark-matt / wet surface appearance, i.e., it must be saturated surface dry (SSD).
- For tiling in frequently damp rooms, a suitable waterproofing product/system should be applied before the tiling.

MIXING

- Mix SikaTile®-470 XXL Big Slab with 6.25 – 7.0 Litres of clean water with an electric mixer using a low speed (~300-600 rpm) electric mixer until a completely homogeneous and lump-free mix is achieved.
- Allow the mixture to stand for 3-5 minutes for a good reaction and reduce air bubbles before using the adhesive.
- The resulting mix has a very creamy consistency and is easy to apply and spread.

APPLICATION

- Spread tile adhesive by using a notched trowel onto the substrate.
- Apply sufficient product to ensure complete 'wetting' of the back of the tiles.
- Tiling must be carried out on freshly applied adhesive, applying adequate pressure to ensure complete and uniform contact with the adhesive and thus optimum bond. If a film forms on the surface, the adhesive has been left for too long; if this happens, immediately remove the adhesive layer with the trowels, discard the material, and apply a fresh layer of SikaTile®-470 XXL Big Slab adhesive.
- Avoid application in direct sunlight and/or strong wind/or draughts.
- SikaTile®-470 XXL Big Slab is suitable for laying absorbent and non-absorbent tiles indoors without any size limits. Use support if necessary.
- To lay any tiles larger than 1,600 cm² (e.g., 50 x 50 cm), the double-spreading (buttering) technique is always recommended.
- Once the tiles have been laid, leave them to stand for 24 hours or until the tile adhesive is dry before grouting with SikaTile Tile Grout.

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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Product Data Sheet

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