

PRODUCT DATA SHEET

SikaCeram[®]-270 MultiFlow (IT)

MULTI-FLOW, HIGH COVERAGE, DEFORMABLE, FAST-SETTING, TILE ADHESIVE WITH LIGHTWEIGHT FILLERS, TO LAY MEDIUM-LARGE SIZED CERAMIC TILES.



DESCRIPTION

SikaCeram[®]-270 MultiFlow (IT) is deformable, one-pack premixed adhesive composed of high resistance cements, high polymers content, selected silicon/quartz mineral charges and specific additives. It realizes a deformable adhesive layer up to 30 mm thickness. Suitable for grès porcelain and natural stone on facade, heating floors, swimming pools and industrial floorings.

C2 FTE S1 classified according to EN 12004, for thixotropic consistency.

C2 FE S1 classified according to EN 12004, for flow-bed consistency.

USES

- Laying all kind of ceramic tiles, even grès porcelain in large size
- Laying thin porcelain stoneware slabs.
- Laying marbles and natural stone.
- Indoor and outdoor, on walls and floors
- Laying on heating floors, water and electric system
- Over-tiling application on old tiles.
- Suitable for indoor application of composite marble with medium sensitivity to water and size max. 60x60 cm
- Suitable for applications high performances demanding, such as: swimming pools, industrial and heavy traffic floors, facades.
- Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool, cork.

CHARACTERISTICS / ADVANTAGES

- Multi-Flow: from Thixotropic to Flow consistency.
- High deformability
- Possibility to reach thicknesses up to 30 mm (thixotropic consistency)
- Fast curing and drying
- No vertical slipping (thixotropic consistency)
- Extended open time
- VOC emissions: EC1 plus class, very low emission

APPROVALS / CERTIFICATES

Improved deformable fast-setting cementitious adhesive for tiling. EN12004 class C2FTE S1, DoP n 02 04 04 02 001 0 0003241026.

Notified testing laboratory Lab. Modena Centro Prove S.r.l., Nr. Lab. 1599 performed under AVCP System Type 3 testing regarding Determination of tensile adhesion strength and issued testing report Nr. (W, cons. thixo) 20150099, (W, cons. fluid) 20150100; (G, cons. thixo) 20150092, (G, cons. fluid) 20150098.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, water retention additives and re-dispersible polymer.
Packaging	25 kg bag
Appearance / Colour	Grey an white powder
Shelf life	6 months from date of production
Storage conditions	The product must be stored properly in undamaged original sealed packaging, in dry and cool conditions.
Density	Mixture: ~1.5 kg/l
Maximum Grain Size	D _{max} : 0.3 mm

TECHNICAL INFORMATION

Tensile Adhesion Strength	Early (at 6 h):				
	<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1348)
	~ 1.3 MPa	~ 1.0 MPa	~ 1.0 MPa	~ 1.2 MPa	
	Initial:				
	<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1348)
	~ 2.3 MPa	~ 3.0 MPa	~ 2.7 MPa	~ 2.7 MPa	
After heat action:					
<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1348)	
~ 2.1 MPa	~ 2.1 MPa	~ 3.0 MPa	~ 2.8 MPa		
After water immersion:					
<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1348)	
~ 1.5 MPa	~ 2.1 MPa	~ 2.1 MPa	~ 1.6 MPa		
After freez/thaw cycles:					
<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1348)	
~ 2.8 MPa	~ 2.0 MPa	~ 3.4 MPa	~ 2.8 MPa		
Transverse deformation	<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 12002)
	~ 2.6 mm	~ 2.5 mm	~ 2.8 mm	~ 2.8 mm	
Slip Resistance	<u>Grey thixo</u>	<u>Grey fluid</u>	<u>White thixo</u>	<u>White fluid</u>	(EN 1308)
	≤ 0.5 mm	-	≤ 0.5 mm	-	

SYSTEMS

System Structure	Generally no primer is required. However for the following difficult highly absorbent substrates, a primer shall be used:						
	<table border="1"> <thead> <tr> <th>Substrate</th> <th>Primer</th> </tr> </thead> <tbody> <tr> <td>Gypsum Plaster or Anhydrite Screed</td> <td>Sika® Primer-11 W</td> </tr> <tr> <td>PVC, linoleum and old vinyl floors</td> <td>Sika® Primer-21 W</td> </tr> </tbody> </table>	Substrate	Primer	Gypsum Plaster or Anhydrite Screed	Sika® Primer-11 W	PVC, linoleum and old vinyl floors	Sika® Primer-21 W
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Gypsum Plaster or Anhydrite Screed	Sika® Primer-11 W						
PVC, linoleum and old vinyl floors	Sika® Primer-21 W						
	Application and consumption details of the primer are given in the relevant Product Data Sheet.						

APPLICATION INFORMATION

Mixing Ratio	Thixotropic: ~ 6.25 litres of water (25% ± 1%) for 25 kg of powder Grey Fluid: ~ 7.25 litres of water (29% ± 1%) for 25 kg of powder Grey Thixotropic: ~ 6 litres of water (24% ± 1%) for 25 kg of powder White Fluid: ~ 7 litres of water (28% ± 1%) for 25 kg of powder White
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Consumption

The consumption is dependent on the surface profile and roughness of the substrate as well as on the size of the tiles and the application technique (double spreading in thin-bed consistence, or single-spreading in flow-bed consistence).

As a guide, in kg of powder per m²:

Types of tile	Trowel sizes	Consumption
Small tiles (mosaic)	6 mm	~ 2.1 kg/m ²
Normal size tiles (20x20cm – 40x40cm)	10 mm	~ 2.9 kg/m ²
Large tiles and double spreading	15 mm	~ 3.5 kg/m ²

Layer Thickness	30 mm max.
Ambient Air Temperature	+5°C min. / +30°C max.
Substrate Temperature	+5°C min. / +30°C max.
Maturing Time	~ 3 min
Pot Life	Thixotropic consistency: ~ 45 min at +23°C Fluid consistency: ~ 55 min at +23°C
Open Time	~ 30 min at +23°C (EN 1346)
Adjustability Time	~ 40 min at +23°C
Applied Product Ready for Use	Before floor grouting – light foot traffic ~ 3-4 hours Before wall grouting ~ 3-4 hours Before opening to full traffic ~ 24 hours (72 hours for tank and pool)

All values have been gotten at laboratory conditions: 23°C – 50% r.h.. Higher temperatures reduce the indicated lapse time, oppositely, lower temperature increase it.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

SikaCeram®-270 MultiFlow (IT) is applied directly on plasters and cementitious substrates, cement-lime mortars, concrete, plasterboard, helicopter finished concrete, old ceramic floors and cementitious water-proofing system like Sikalastic®-152 or Sikalastic®-1K. On other substrates, use relevant primers. For any other kind of substrates, please contact the Technical Service.

The substrate must be cement laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.

The substrate must be perfectly flat, tight and free from parts easily removable, non-deformable and correctly aged. Any small gradients or bumps or gravel can be leveled and filled with a layer of SikaCeram®-270 MultiFlow (IT), in maximum thickness of 15 mm, applied at least 24 h before laying the ceramic coating. For higher thickness, mortars of Sika MonoTop® or Sika® Level range should be used.

MIXING

Mix 25 kg bag with the necessary, above mentioned, amount of water, using an electric blender with a suitable mixing spiral at low speed, in a clean bucket, and up to obtain a smooth paste free of lumps. Use a blender at 500 rpm max.; do not mix at faster rate because of mechanical strength decay of the cured product. After blending the tile adhesive is ready to be used. The obtained mix results very creamy, easily spreadable, and highly thixotropic.

APPLICATION

SikaCeram®-270 MultiFlow (IT) is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on fresh glue, exerting an adequate pressure to ensure contact with the adhesive, and thus the perfect bonding. In case a surface film is formed on the adhesive, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with water the adhesive already applied, it damage the adhesive. To lay tiles sized 900 cm² (e.g. 30x30 cm), or larger, the double-spreading (buttering) thin-bed consistence or single-spreading flow-bed consistency techniques of adhesive application is always recommended.

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

SikaCeram®-270 MultiFlow (IT) shall not be applied on the following cases:

- On metal and wood surfaces
- To realize coats thicker than 30 mm (thixotropic consistency)
- To realize coats thicker than 6 mm (fluid consistency)
- On old ceramic tiles outdoor

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 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.

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.

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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