

PRODUCT DATA SHEET

SikaTile®-330 PRO

Professional-grade, polymer-modified mortar

PRODUCT DESCRIPTION

SikaTile®-330 PRO is a 1-component professional-grade polymer modified mortar featuring extended open time and adjustability for installations on floors.

SikaTile®-330 PRO is developed with the latest generation of polymers and Sika's Fibermesh® technology resulting in good adhesion performances and is also formulated to provide the user with an application-friendly, tile-setting mortar.

WHERE TO USE

For setting the following types of tiles:

- Ceramic and porcelain tiles, quarry tile and mosaic tile

For most the following applications:

- Residential and commercial interior floors
- Heated floors (water and electric systems) interior only

On the following substrates:

- Concrete
- Cement mortar screed
- SikaLevel® underlayments and toppings

CHARACTERISTICS / ADVANTAGES

- Time saving features
 - By performing a more rigorous control of the aggregate size in the formula:
 - SikaTile®-330 PRO does not require any slake time. Just mix, trowel and install. Remixing is only necessary after about an hour, without having to add water, which helps maintain its performances.
 - It also provides easy removal of the tile setting mortar between the tiles before grouting compared to most

other tile setting mortars in the market.

- Excellent handling characteristics through extended open and adjustment times
- Good adhesion performances
- Water-resistant once cured
- Cost-efficient

Note:

1. For interior wall installations, consider SikaTile®-410 Flex Support or better (refer to the product data sheet under consideration)
2. For exterior wall installations refer to SikaTile®-530 LG (flexible) or refer to SikaTile®-580 LG Extreme (highly flexible) (refer to the product data sheet under consideration)
3. For installations over plywood refer to SikaTile®-410 Flex Support or better (refer to the respective product data sheet under consideration)
4. For interior installations over Sikalastic®-260 Stop Aqua (CA) refer to SikaTile®-410 Flex Support or better (refer to the product data sheet under consideration)
5. For rapid back in service requirements or for fast-track conditions refer to SikaTile®-560 LFT Rapid

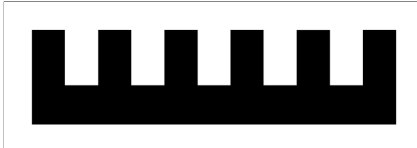
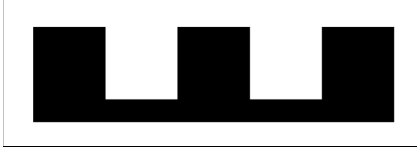
APPROVALS / CERTIFICATES

- SikaTile®-330 PRO meets ISO 13007 international standard for the C2E classification
- SikaTile®-330 PRO meets ANSI A118.4E standard

PRODUCT INFORMATION

Composition / Manufacturing	Portland cement, selected aggregates, water retention additives, redispersible polymer		
Packaging	20 kg (44 lb) bag		
Appearance / Colour	Grey		
Shelf Life	12 months from date of production when stored in original, sealed package		
Storage Conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C (41 °F) and 35 °C (95 °F). Protect from direct sunlight, heat and moisture.		
CSC MasterFormat®	09 30 00 TILING		
Pull-Off Strength	ISO 13007 Classification		
	Classification Code	Classification requirements	Results
	C2 (cementitious, improved adhesion)	≥ 1 MPa (145 psi) after standard aging, heat aging, water immersion and freeze/thaw cycles	Pass
	E (extended open time)	≥ 0.5 MPa (72.5 psi) after 30 minutes	Pass
Shear Adhesion Strength	ANSI Method / 4 Week Shear Bond Strength		
	Test Method	Requirements	Results
	ANSI A118.4 - shear strength, glazed wall tile	≥ 1.38 MPa (200 psi)	Pass
	ANSI A118.4 - shear strength, quarry tile to quarry tile	≥ 2.07 MPa (300 psi)	Pass
	ANSI A118.4 - shear strength, impervious ceramic (porcelain) mosaics	≥ 1.03 MPa (150 psi)	Pass
	ANSI A118.4E - extended open time (at 30 minutes)	≥ 0.5 MPa (72.5 psi)	Pass

APPLICATION INFORMATION

Mixing Ratio	4.4 to 4.7 L (1.16 to 1.24 US gal) of clean potable water per 20 kg (44 lb) bag	
Yield	RECOMMENDED TROWEL SIZE	
	Trowel	Coverage*
	6 x 6 x 6 mm (1/4 x 1/4 x 1/4 in)	6.8 m ² to 7.6 m ² (73 ft ² to 84 ft ²)
		
	6 x 9 x 6 mm (1/4 x 3/8 x 1/4 in)	4.0 m ² to 4.4 m ² (41 ft ² to 47 ft ²)
		
	13 x 13 x 13 mm (1/2 x 1/2 x 1/2 in)	3.5 m ² to 3.8 m ² (38 ft ² to 41 ft ²)
		
* The consumption depends on the surface profile and roughness of the substrate and on the size of the tiles and the placing technique		
Pot Life	> 2 ½ hours	
Open Time	≥ 30 minutes SikaTile®-330 PRO meets A118.4E and ISO 13007 adhesion performance requirement for Extended Open Time	
Curing Time	Product curing time is affected by ambient and surface temperatures and humidity	

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) / 50 % r.h. unless stated otherwise.

LIMITATIONS

- Do not bond directly to plywood (SikaTile®-330 PRO is ONLY to be used over cementitious substrates).
- SikaTile®-330 PRO is not designed for vertical installations.
- Do not use where high moisture or hydrostatic conditions or recurring moisture problems exist.
- Do not install over moving control joints (with active cracks) or over expansion joints.
- Do not use SikaTile®-330 PRO below 13 °C (55 °F) or

above 35 °C (95°F).

- Do not use SikaTile®-330 PRO in installations that will continually be in immersion conditions such as swimming pools, fountains or in long exposure to water such as gang showers and steam showers. In such case, refer to SikaTile®-560 LFT.
- Do not use for setting resin-backed tiles. Instead, use Sika's epoxy or urethane adhesives.
- Spot bonding is not an approved installation method.

As well, Sika® recommends:

- To protect stored material from exposure to rain, condensation and high humidity as moisture may penetrate packaging, causing lumps.
- That for best results, condition product to 18 °C (64 °F) to 27 °C (81 °F) prior to mixing and installation. Lower temperatures may result in slower strength development and longer cure times.
- That during Pot Life. If remixing is necessary (generally around 60 minutes). To simply remix with drill for 30 -

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- 45 seconds, without the need to add water.
- That cement mortar screed to which SikaTile®-330 PRO is to be applied shall be sound and solid with a direct tensile strength of not less than 0.5 MPa (72.5 psi).
- That for best results when installing large and heavy tiles on floors or for heaving traffic areas, refer to SikaTile®- 460 LHT or refer to SikaTile®-560 LFT Rapid
- That for installations involving Large Format Tiles (LFT) or Gauged Porcelain Tile Panels (GPT/P) refer to SikaTile®-560 LFT or Gauged Porcelain Slabs on floors, refer to SikaTile®-460 LHT or refer to SikaTile®-560 LFT Rapid.

ENVIRONMENT, HEALTH & 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

JOB SITE CONDITIONS

Maintain environmental conditions and protect work during and after installation. Comply with trade and industry standards and manufacturer's printed recommendations.

When tiling in cool conditions in the work area, turn off all forced ventilation and radiant heating systems and protect the work. When necessary, use indirect auxiliary heaters to maintain an adequate temperature level in the working area (ambient and surface temperatures). Exhaust temporary heaters to the exterior potential harmfulness to the personal and/or to prevent damage to the work from carbon monoxide emissions. Maintain work area at a temperature no lower than 13 °C (55 °F) for at least 72 hours before and after installation.

SUBSTRATE QUALITY (for concrete or for cement mortar screed)

Surface treatments or any friable areas of the substrate must be mechanically eliminated. Aggressive mechanical preparation (such as but not limited to using a scarifier or a chipping hammer may invite micro bruising of the substrate) Contact Sika's Technical Services for additional information.

Resurfacing, patching, levelling or areas requiring a mortar screed should be prepared using appropriate SikaLevel® self-levelling, patching, or SikaScreed®-40 screed mortar. Expansion joints should comply with detail 301MJ Movement joint guidelines per TTMAC.

Warning: Refer to the Regulations Made Under the

Canada Labour Code for additional information regarding requirements for handling surface containing or suspected of containing lead-based paints or any flooring, substrate or substances that may contain asbestos.

SURFACE PREPARATION

All supporting surfaces should be structurally sound, solid, stable. Surfaces shall be flat, plumb and true with a maximum permissible variation of 6 mm (1/4 in) in 3.05 m (10 ft) or no more than 3 mm (1/8 in) in 600 mm (24 in) from the required plane. However, any tile or stone with at least one edge greater than 380 mm (15 in) requires more stringent tolerances of the substrate with a maximum permissible variation of 3 mm (1/8 in) in 3.05 m (10 ft) or more than 1.5 mm (1/16 in) in 600 mm (24 in). Surfaces should be clean and free of dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, form release agent and any deleterious substance or conditions that may prevent, reduce or inhibit adhesion or performance.

Before work commences, examine the areas to be covered and report any improper condition(s) in writing to the general contractor, architect or engineer (or otherwise, the owner). User shall not proceed with the work until surfaces and conditions comply with the requirements indicated in this document; applicable industry standards; federal, provincial and local regulations, as well as good trade practices. By starting work, the Applicator/User acknowledges that the conditions are acceptable.

Localized substrate repair variations of 5 mm (13/64 in) or less can be levelled with SikaTile®-330 PRO and allow to set at least 18 hours (or as soon as 3 hours when using SikaTile®-560 LFT Rapid).

Concrete (and cement mortar screed)

Concrete must be cured for a minimum of 28 days (up to 14 days for cement mortar screed or only 5 hours when using SikaScreed®-40 screed mortar). On grade or below grade concrete slabs must be installed over an effective and continuous vapour barrier. On a clean and dust-free substrate, place a single drop of portable water (quarter size) on the substrate using a pipette. The concrete should turn dark. If the drop is absorbed within 60 seconds, the substrate can be considered porous (or absorptive) and acceptable for using SikaTile®-330 PRO. Otherwise, a bond test should be performed to confirm an adequate bond. If an adequate bond cannot be achieved, the concrete surface should be abraded, and additional bond tests should be conducted. If an adequate bond cannot be achieved or in doubt, contact Sika's Technical Services.

Note : As per TTMAC (Tile Terrazzo Marble Association of Canada) 09 30 00 guide. Concrete should have a steel

trowel and fine broom finish for thin-set applications. Indeed, although not mandatory, a light surface profile can positively impact bond performances of cementitious tile setting adhesives.

MIXING

In a clean container, add between 4.4 to 4.7 L (1.16 to 1.24 US gal) of clean potable water. Then add 1/2 bag of SikaTile®-330 PRO and mix at slow speed until a wet slurry is obtained. Add 1/4 bag and mix between 200-300 rpm until powder comes to a loose paste consistency. Add final 1/4 bag and mix thoroughly to a smooth and homogeneous consistency. SikaTile®-330 PRO consistency shall be such that when applied with the recommended notched trowel to the substrate, the ridges formed by the mortar do not flow or slump.

Note: No Slake Technology - No wait, just mix, trowel and install.

APPLICATION

Choose a notched trowel with sufficient depth to achieve more than 80 % coverage of SikaTile®-330 PRO and transfer to substrate and back of tile for all interior applications.

For commercial floor, in applications in wet areas, for tiles that are going to be subjected to heavy traffic or exposed to high impact or for tiles with at least one edge greater than 380 mm (15 in), a minimum of 95 % coverage must be achieved. "Flat back trowelling" the tile which consists of applying a thin layer of SikaTile®-330 PRO to the back of each tile before setting it in place may be necessary to meet these requirements and it may also help improve adhesion to tiles with bond breakers such kiln release agents.

With pressure, apply a coat of SikaTile®-330 PRO by using the flat side of the trowel to key the mortar into the substrate. With the notched side of the trowel, apply additional mortar by combing it in a single direction parallel to the shortest dimension of the tile. Spread only as much mortar as can be tiled before the product skins over.

Place the tiles firmly into the freshly applied SikaTile®-330 PRO. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the ridges which can help achieve better coverage with edges and corners fully supported. Ensure proper contact of the mortar to the back of the tile and to the substrate by periodically lifting a few tiles to check for acceptable coverage and verify that corner and edges are fully supported. Open time can vary with job site conditions. Remove excess SikaTile®-330 PRO from the joint areas so that at least 2/3 of the tile depth is available for grouting. Always allow SikaTile®-330 PRO to cure sufficiently before grouting and eventually opening to traffic.

MOVEMENT JOINTS

Expansion, control, construction, cold, saw-cut, isolation, contraction, and seismic joints in the structure should continue through the tilework, including such joints at vertical surfaces, as specified per TTMAC's Specification Guide 09 30 00 Tile Installation Manual, Detail 301MJ. Do not cover movement joints with mortar. Use a suitable sealant instead (following manufacturer's written instructions). Always test a small inconspicuous area for staining or leaching before use to ensure compatibility on natural stones.

GROUTING AND PROTECTION

Protect from impact and vibration for at least 48 hours. Allow at least 18 hours before grouting. Then protect grouted area at least 18 hours before allowing foot traffic and at least 24 hours before allowing light traffic depending on temperatures and humidity conditions. Protect from heavy traffic for at least seven (7) days. As necessary, use load distributing protection over the installation when moving heavy equipment across tiled assembly.

Note: Extended protection and downtime requirements before grouting may be required depending on temperature and humidity conditions and on the porosity and size of the tile or stone being installed

PROTECTING NEW TILED FLOOR

Upon completion of tiled floor, it is the responsibility of the owner/agent or general contractor to protect the floor from damages (TTMAC's Specification Guide 09 30 00 Tile Installation Manual).

CLEAN UP

Clean all tools and equipment after use with water. Once hardened, the product 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.

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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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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