

PRODUCT DATA SHEET

Sikalastic®-1K PH

ONE COMPONENT FIBER REINFORCED, FLEXIBLE CEMENTITIOUS WATERPROOFING COMPOUND

DESCRIPTION

Sikalastic® -1 KPH is a one-component, cementitious waterproofing mortar modified with special alkali-resistant polymers and fibers to produce a cementitious waterproofed surface

USES

- Internal waterproofing of walls and floors in bathrooms, kitchens, wetrooms, etc.
- Waterproofing external wall surfaces to be backfilled in the ground
- Waterproofing of terraces and balconies over concrete (below screed or tiles)
- General waterproofing of concrete surface

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush, roller or trowel
- Can be applied on damp substrate
- Good sag resistance and easy to apply on vertical surfaces
- Very good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, ceramic and timber)
- Mixing ratio can be adjusted in order to obtain the consistency and workability

PRODUCT INFORMATION

Chemical Base	Cement modified with polymers, selected aggregates, admixtures, additives and fibers.
Packaging	4.5 kg
Shelf Life	6 months from date of production
Storage Conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Protect from direct sunlight, rain and water. Not sensitive to frost.
Appearance / Colour	Grey powder

TECHNICAL INFORMATION

Tensile Adhesion Strength	Dry Substrate (at 28 days)	~1.0–1.2 N/mm ²	ASTM D7234-12
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APPLICATION INFORMATION

Fresh mortar density	~1.5 kg/l (at +25 °C)	
Consumption	This depends on the substrate roughness; as a guide, ~1.0 kg/m ² Sikalastic®-1K PH must be applied in minimum 2 coats	
Ambient Air Temperature	+10°C min. / +40 °C max.	
Mixing Ratio	Application by brush	~6.0 L water per 20 kg bag / ~1.8 L water per 6 kg bag
	Application by trowel	~4.4 L water per 20 kg bag / ~1.3 L water per 6 kg bag
Substrate Temperature	+10°C min. / +40 °C max.	
Pot Life	~30 minutes (at +30 °C)	
Waiting Time / Overcoating	Sikalastic®-1K PH must be completely hardened before over-coating or water contact.	
	Guide for waiting times at +20 °C:	
	Horizontal covering by tiles	~2 days
	Vertical covering by tiles	~2 days
	24 Hour Flood Test	~2 days
Times will vary due to ambient and substrate humidity.		

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

- Avoid application under direct sun light, rain and/or strong wind. Setting time can be influenced by high relative humidity, particularly in closed rooms or basement. Adequate ventilation is recommended when applying Sikalastic®-1K PH
- Protect from rain for at least 24–48 h after application.
- If a solvent based paint must be painted on Sikalastic®-1K PH, carry out preliminary testing in order to ensure the solvents do no damage the waterproofing layer.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be structurally sound, free of cement laitance, clean and free from dirt, oil, grease or other contaminants. Loose or friable particles must be removed.
- Remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other

material which could reduce adhesion, by means of blastcleaning, high-pressure water-jetting (150–200bar), wire brushing, grinding and abrading of ceramic tiles etc. All dust deposits must also be removed by vacuum or any other appropriate method.

- Repair concrete substrates, if deemed necessary, with an appropriate cementitious mortar (e.g. SikaTop®, Sika MonoTop®, Lanko® range of repair materials.)
- All connections between the substrate and pipe entries, plant and equipment, light switches etc., must be sealed and watertight.
- Use coved details at the floor/wall junctions made from approved mortars, for optimal waterproofing performance.
- The substrates can be dry or damp. Do not apply Sikalastic®-1K PH on substrates with stagnant water or water ponding and substrates where condensation is likely to occur.

MIXING

1. Sikalastic®-1K PH should be mechanically mixed using a forced-action mixer or in a clean drum using a low speed electric drill and paddle mixer (maximum 500 r.p.m.).
2. Mix slowly by adding Sikalastic®-1K PH into the water (For the quantity of water, see mixing ratio).
3. Once a homogeneous mix is obtained, continue to mix for another 3–4 min. The mortar must be completely homogeneous and free from lumps. Do not add any other additives.
4. Mix the whole bag/pail, in order to avoid any inequacy in the distribution of the constituents.

APPLICATION

Trowel

1. Maintain an even pressure onto the substrate's surface to ensure a uniform distribution and thickness of Sikalastic®-1K PH. Trowel in two directions (at right angles).
2. Minimum recommended thickness is 1 mm per coat. The final thickness when applied by trowel will depend on the method of application and level or grade of exposure / waterproofing required.
3. The highest waterproofing performance is obtained by applying Sikalastic®-1K PH using a trowel in at least 2 coats, to a total thickness of 3–4 mm.

Brush or Roller

1. Application by brush or roller must be undertaken with maximum attention to completely cover the substrate's surface uniformly. Brush or roll in two directions (at right angles).
2. The application of min. 2–3 coats is required.

Spray Application

- Spray application is applicable with the correct equipment. Please consult Sika's representative for more information.

Joints / Critical areas

1. At floor joints and other critical areas (for example, any junctions with vertical surfaces), the watertightness can be reinforced by using Sika® SealTape-F. Sika® SealTape-F must be fixed directly onto the first coat of Sikalastic®-1K PH whilst it is still wet, and then covered by a second coat of Sikalastic®-1K PH.
2. Other approved alternatives (e.g. coves) could be used to address waterproofing of corners using Sikalastic®-1K PH.
3. Penetrations/connections must be watertight and properly sealed as well.

CURING TREATMENT

Generally not required but precautions should be taken for applications done directly under sunlight and windy condition.

CLEANING OF TOOLS

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

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.

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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 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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