

PRODUCT DATA SHEET

SikaTop[®]-126 Pro

Multifunctional 2K polymer sealant (MDS/FPD/OS 5b (DI))

DESCRIPTION

SikaTop[®]-126 Pro is a two part polymer modified cementitious waterproofing mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures. Cementitious slurry for waterproofing and concrete protection.

USES

- Interior and exterior waterproofing of subgrades such as concrete, cementitious rendering, brickwork and blockwork
- Waterproofing of basement walls in new construction and refurbishment works
- Concrete protection coating according to EN 1504-2, method 1.3 (ingress protection), 2.2 (moisture control) and 8.2 (increasing resistivity)
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Pore / blowhole filling
- Sealing fine "hairline" cracks in concrete structures

CHARACTERISTICS / ADVANTAGES

- Surface protection system OS 5b (DI) flexible sealing against pressing water according to the test principles MDS/FPD
- Tested tank waterproofing up to 10 m water column according to DIN 18535 Class W2-B
- Economical waterproofing of basement walls, foundations as well as concrete components according to DIN 18533 Class W1-E
- Safe waterproofing as horizontal barrier according to DIN 18533 Class W4-E
- Highest crack bridging class RÜ3 according to PG FPD (2.0 mm crack expansion)
- Safety due to crack bridging even at -20 °C high yield, more than 93 % of the coating application remains as dry film thickness
- Individual application possibilities due to manual, as well as mechanical processing
- No post-treatment necessary
- Very good resistance to weathering and aging
- Excellent protection against carbonation
- Bonding of the insulation or protective panels
- Integrated color indicator for drying control

APPROVALS / CERTIFICATES

- National test certificate for a construction product (abP) with the Test principles MDS and FPD
- CE certification as OS system according to EN 1504-2 and DIN V 18026 for protection and repair of concrete structures

PRODUCT INFORMATION

Packaging	comp. A comp. B	13Kg bag 10Kg canister
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 +30 °C. Always refer to packaging.	
System structure	Application as OS 5b (DI)	

Dry layer thickness	2,0 mm
Wet layer thickness	ca. 2,2 mm
Consumption*	ca. 2,65 kg/m ²

If desired, the reacted SikaTop®-126 Pro can be reworked with Sikagard-550 W Elastic.

Application according to DIN 18533-1 and -3**

Effect W1-E Soil moisture and non-pressing water:

	MDS	FPD
Dry layer thickness	2,0 mm	3,0 mm
Wet layer thickness	ca. 2,2 mm	ca. 3,3 mm
Consumption*	ca. 2,65 kg/m ²	ca. 4,00 kg/m ²

Impact W4-E Splash water and soil moisture at the wall base as well as capillary water in and under walls:

	MDS	FPD
Dry layer thickness	2,0 mm	2,0 mm
Wet layer thickness	ca. 2,2 mm	ca. 2,2 mm
Consumption*	ca. 2,65 kg/m ²	ca. 2,65 kg/m ²

Application according to DIN 18535-1 and -3 in basins and tanks**

Water impact class W2-B <10 m:

	MDS	FPD
Dry layer thickness	2,0 mm	4,0 mm
Wet layer thickness	ca. 2,2 mm	ca. 4,4 mm
Consumption*	ca. 2,65 kg/m ²	ca. 5,30 kg/m ²

* The data given are laboratory values and may deviate depending on site conditions. The existing substrate condition may lead to additional consumption, roughness compensation is not taken into account. The consumption of the scratch filler and spraying losses during application must also be taken into account.

** Terminations of waterproofing must be designed in such a way that the waterproofing neither slips off nor comes off. For this purpose, it must be checked in each individual case whether mechanical retention is required. If the design situation precludes detachment or slipping of the waterproofing, this protection can be dispensed with.

APPLICATION INFORMATION

Mixing ratio	comp. A : comp. B	1,3:1 in weight parts
Fresh mortar density	ca. 1,3 kg/l	
Consumption	ca. 1,33 kg/mm/m ²	
Ambient air temperature	minimum	+5°C
	maximum	+30°C
do not apply in direct sunlight, that might reduce the working time.		
Substrate temperature	minimum	+5°C
	maximum	+30°C

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

EQUIPMENT

SikaTop®-126 Pro can be applied manual by trowel or scrabel. Wet spraying is possible by using suitable peristaltic feed pump (e.g. with Inotec Ino- BEAM M8 or similar). The diameter of the spraying nozzle should be ~ 4-6mm.

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete (according to DIN EN 206-1) or the surface must be solid, free of loose and sanding parts, dust and dirt. Paint residues and residues of stripping agents, especially those containing oil and wax, as well as cement slurries adhering to the surface must be removed.

The concrete surface must be prepared by compressed air blasting with solid abrasive or high-pressure water blasting (from 400 bar) to such an extent that average tear-off strengths of 1.0 N/mm² are achieved. Pre-wetting of the concrete wall must be avoided, as this may cause the acrylic dispersion to escape. Edges are to be broken.

Roughness compensation 1 - 3 mm:	e. g. fine filler Sika Icoment®-520
Roughness compensation 3 - 5 mm:	e. g. Sika MonoTop®-723 DE oder Sika Icoment®-520 + 20% QS
Blowholes, defects, ...	e. g. Sika MonoTop®-412 DE

Sanded substrates must be cleaned before applying SikaTop®-126 Pro. Dust and loose particles reduce adhesion to the substrate.

For sanded or highly absorbent substrates, as well as for application according to DIN 18535 for basins and tanks, priming of the surface with Sikagard®-552 W Aquaprimer is recommended.

MIXING

SikaTop®-126 Pro can be mixed with a low speed (~ 500 r/min) hand drill mixer, adding comp. A and comp. B in 2:1 volume parts. Once a homogeneous mix is obtained, continue mixing for 3–4 min. The mortar must be homogeneous and lump free. Do not add any additional water or other ingredients. Each bag must be entirely mixed, to avoid faulty particle size distribution of aggregates contained in the powder component.

APPLICATION

SikaTop®-126 Pro is applied as a scratch coat in the first working step. Depending on the required layer thickness, the layer is then built up using a trowel. At least two working passes are necessary for the required layer thicknesses.

Subsequent coats may only be applied when the lower coat has sufficiently cured, or is not damaged by the new application.

The scratch coat can usually be recoated after approx. 6 hours (+23 °C), depending on external conditions. Relevant here is the color change to anthracite, which indicates complete drying.

The maximum layer thickness per working cycle is approx. 2-3 mm. Higher layer thicknesses generally lead to a longer curing process, but may be necessary for specific projects. Please consult your technical advisor. Please also refer to the separate detailed instructions for SikaTop®-126 Pro.

CURING TREATMENT

In closed systems (containers), sufficient air exchange must be ensured until final curing.

Do not apply water to the surface.

SikaTop®-126 Pro can be permanently exposed to water after complete drying.

If desired, the cured SikaTop®-126 Pro can be recoated with Sikagard-550 W Elastic (without permanent water exposure).

Pretreatment is not necessary for this purpose.

CLEANING OF EQUIPMENT

Clean all devices with clean water immediately after use.

Reacted material can only be removed mechanically.

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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 the 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 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.

Sika Deutschland GmbH

Kornwestheimer Straße 103 - 107

D - 70439 Stuttgart

Telefon: 0711/8009-0

Telefax: 0711/8009-0

E-Mail: info@de.sika.com

www.sika.de



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