

PRODUCT DATA SHEET

SikaTop®-1026

(formerly MProtect 126)

Carbonation and chloride resistant cementitious coating for use on concrete and masonry

DESCRIPTION

SikaTop®-1026 is a ready-to-use, chloride and carbonation resistant coating based on a blend of Portland cement, well-graded sand and modifying agents for use on concrete and masonry. Mixed with SikaLatex®-600 it provides a slurry consistency suitable for application by brush, trowel or spray.

USES

SikaTop®-1026 can be used to protect concrete structures from the aggressive attack of chlorides, carbonation, water and freeze-thaw cycling. Some typical structures would include:

- bridges
- motorway abutments
- tunnels
- structures in a marine or industrial environment.

FEATURES

- Good protection against carbonation.
- Freeze-thaw and chloride resistant.
- Water vapour permeable.
- Re-alkalizes carbonated concrete.
- High bond strengths, becomes integral part of the substrate.
- Can be applied above and below ground level.
- Cost effective: good application rate.
- To be applied on a damp substrate.
- Easy application by brush, trowel or spray.
- Does not require any special primer.
- Equipment to be cleaned simply with water.

CERTIFICATES AND TEST REPORTS

CE-Certification according to EN 1504-2 as protective coating.

PRODUCT INFORMATION

Packaging	25 kg paper bags
Appearance and colour	Grey powder
Shelf life	12 Months after date of production.
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions; no permanent storage over +30 °C.
Maximum grain size	0.7 mm

TECHNICAL INFORMATION

Compressive strength	$\geq 40 \text{ N/mm}^2$ after 28 days	(EN 12190)
Flexural-strength	$\geq 10 \text{ N/mm}^2$ after 28 days	(EN 12190)
Tensile adhesion strength	3.2 N/mm^2	(EN 1542)

Thermal compatibility	Adhesion after dry cycling	3.4 N/mm ²	(EN 13687-3)
Freeze thaw de-icing salt resistance	Adhesion after freeze-thaw cycling with de-icing salt immersion	2.9 N/mm ²	(EN 13687-1)
Behaviour after artificial weathering	Adhesion after thunder/shower cycling	3.6 N/mm ²	(EN 13687-2)
Permeability to water vapour	Sd < 5 m (Class I)		(EN ISO 7783)
Permeability to carbon dioxide	Method B	Sd > 50 m	(EN 1062-6)
Service temperature	-30 °C to +80 °C		
Chloride diffusion coefficient	5.85·10 ⁻¹² m ² /s		(NT BUILD 489)

APPLICATION INFORMATION

Consumption	An average of 1.7 kg powder will be required per mm thickness and m ² . A 25 kg bag will cover approx. 5 m ² if applied with the minimum total thickness of 3 mm. The coverage rate will strongly depend on the roughness of the substrate.		
Layer thickness	Minimum 3 mm in total, applied in 2 layers.		
Ambient air temperature	+5 °C to +30 °C		
Substrate temperature	+5 °C to +30 °C		
Pot Life	~ 45 minutes*		
Waiting time to overcoating	Can be overcoated with approved coatings after 3 days (at +21 °C and 65% relative humidity).		
Final set time	around 6 to 7 hours* * At 21 ± 2°C and 60 ± 10% relative humidity. Higher temperatures will reduce these times and lower temperatures will extend them.		
Fresh mortar density	~2.05 kg/l		

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.

IMPORTANT CONSIDERATIONS

- Do not apply SikaTop®-1026 at temperatures below +5 °C nor above +30 °C.
- Never add water or fresh mortar to a mortar mix which has already begun to set.
- Protect the freshly applied material against rainfall for minimum 24 hours.
- In case of high temperatures, windy conditions and direct sunlight protect mortar against too rapid dehydration (e.g. by repeated sprinkling with water or covering with PE foil).

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

NOTES ON INSTALLATION

SikaTop®-1026 is to be mixed with SikaLatex®-600. Do not mix with water only!

SUBSTRATE PREPARATION

The surface must be clean and sound. Remove all traces of previous coatings, laitance, oil, curing compounds, organic growth or any other contaminants which may adversely affect the bond of SikaTop®-1026. Suitable cleaning methods include high-pressure water jetting or grit blasting. Aggressive percussive methods such as scabbling are not recommended. After the above treatment, surfaces must be thoroughly washed with clean water to remove all dust and loose particles. Prior to the application of SikaTop®-1026 eventual holes and cracks should be cut out and repaired with a suitable Sika repair mortar. The prepared substrate should be pre-soaked, preferably for 12 hours, but at least 2 hours before applying SikaTop®-1026. The surface must be mat-damp, but without standing water.
Note: Porous substrates need more to be presaturated than dense substrates.

MIXING

Fill the necessary quantity of SikaLatex®-600 into a clean pail and slowly add SikaTop®-1026. Mixing ratio: 25 kg SikaTop®-1026 powder + 5 litres SikaLatex®-600 (allowed range: 4.6 – 5.4 litres). Stir mechanically with a low speed mixer (400-600 turns/min) until the mixture is homogeneous and free of lumps. Eventually add more SikaLatex®-600 until the desired consistency is achieved, but do not exceed the maximum liquid amount. Allow the slurry to saturate for 5 minutes and remix shortly to obtain an easy-to-apply product. Mix only that amount of material that can be used within the pot life of the resulting mortar!

APPLICATION

Always apply SikaTop®-1026 to a pre-dampened surface. Do not apply SikaTop®-1026 on frozen substrates or when the ambient temperature is below + 5 °C and will drop below +5 °C within the next 24 hours. Avoid application in direct sunlight. Mixed material must be used within 45 minutes (at +21 °C).

Apply a first coat of SikaTop®-1026 by brush or broom onto the pre-dampened, prepared surface and brush the product well into the surface. The recommended thickness of the first coat to be applied is minimum 1.5 mm. When the product begins to drag or “ball”, do not add more SikaLatex®-600, but dampen the surface again.

SikaTop®-1026 can be spray applied but should afterwards be brushed well into the substrate to ensure proper adhesion.

Apply a second coat after the first coat has reached its initial set. Typically the second coating is applied the next day. Do not exceed 7 days before applying the second coat.

Sika Danmark A/S

Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk

Dampen the first coat and remove excess moisture. The second coat may be brushed using the same technique as for the first coat, finishing in the opposite direction, or can be spray-applied (minimum 1.5 mm thickness).

Make sure that at least 3 mm total layer thickness is applied.

CURING TREATMENT

Under hot or excessive drying conditions protect SikaTop®-1026 with polyethylene sheets or fog-spray after the initial set has taken place for as long as practicable. In cold, humid or unventilated areas it may be necessary to leave the application for a longer curing period or to introduce forced air movement. NEVER use dehumidifiers during curing periods. SikaTop®-1026 can be overcoated with approved coatings after 3 days (at +21 °C and 65% relative humidity).

CLEANING OF EQUIPMENT

Tools and mixer must be cleaned immediately after use with water. Cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.



PRODUCT DATA SHEET

SikaTop®-1026

June 2025, Version 02.01
02030200000002166

SikaTop-1026-en-DK-(06-2025)-2-1.pdf