BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-119 MP

Multipurpose neutral silicone sealant

DESCRIPTION

Sikasil®-119 MP is a 1-component, non-corrosive sealant for indoor and outdoor applications.

USES

Sikasil®-119 MP is designed for weatherproof joints between various substrates such as glass, metals, painted surfaces, aluminum, wood, ceramic tile, PVC and concrete.

- Awning, roof and gutter
- Window and door installation
- Tile parameter joints
- General joint sealing

CHARACTERISTICS / ADVANTAGES

- Very good UV and weathering resistance
- Primerless adhesion to a wide range of substrates
- High elasticity and flexibility
- Low odor, neutral curing
- Non-corrosive

PRODUCT INFORMATION

Composition	Neutral silicone	
Packaging	300 ml cartridges, 12 cartridges per box	
Colour	▪ White ▪ Grey ▪ Black ▪ Others on request	
Shelf Life	Sikasil®-119 MP has a shelf life of 12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.	
Storage Conditions	Store in dry conditions, protected from direct sunlight and at temperatures below +27 °C.	
Density	~1.48 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	~45	(ISO 868)
Tensile Strength	~1.0 MPa	(ISO 8339)
Secant Tensile Modulus	~0.5 MPa at 60 % elongation (at 23 °C)	(ISO 8339)

Elongation at Break	≥ 250 %	(ISO 37)
Elastic Recovery	> 80 %	(ISO 7389)
Movement Capability	± 25 %	(ASTM C719)
Service Temperature	-40 °C min. / +150 °C max.	
Joint Design	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. For joints ≥ 10 mm and ≤ 20 mm wide, a joint depth of 10 mm is recommended. For larger joints please contact our Technical Service Department.	

APPLICATION INFORMATION

Consumption

Joint Width	Joint Depth	Joint Length / 300 ml
6 mm	4 mm	~12.5 m
9 mm	5 mm	~6.5 m
12 mm	6 mm	~4 m
20 mm	10 mm	~1.5 m

Ambient Air Temperature	+5 °C min. / +40 °C max. > 3 °C above dew point	
Substrate Temperature	+5 °C min. / +40 °C max. > 3 °C above dew point	
Curing Rate	~3 mm / 24 hours (23 °C / 50 % r.h.)	(CQP 049-2)
Skin Time	~15 minutes (23 °C / 50 % r.h.)	(CQP 019-1)

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 use on alkaline surfaces such as concrete, plaster and masonry.
- Sikasil®-119 MP cannot be overpainted.
- Colour variations may occur due to exposure in service to chemicals, high temperatures and/or UV-light (especially with white colour shade). This effect is aesthetic and does not adversely influence the technical performance or durability of the product.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticisers or solvents that could degrade the sealant.
- Do not use Sikasil®-119 MP in totally confined spaces as it requires moisture from the atmosphere to cure.
- Do not use to seal joints in and around swimming pools.
- Sikasil®-119 MP is not recommended for porous substrates such as natural stone, marble and granite. Bleeding can occur when product is used on these substrates.
- Do not use where physical or abrasive exposure is likely to occur, structural glazing and insulated glazing or food contact applications. Contact Sika Technical Services for advice on alternative products.
- Do not use for joints under water pressure or permanent water immersion.
- Do not use for medical or pharmaceutical applications.

ECOLOGY, HEALTH AND 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

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, old sealants and poorly bonded paint coatings which could affect adhesion of the sealant. The substrate must be of sufficient strength to resist the stresses induced by the sealant during movement.
All dust, loose and friable material must be completely removed from all surfaces using suitable equipment before application of any activators, primers or sealant.
Sikasil®-119 MP adheres without primers and/or activators.
For optimum adhesion, joint durability and critical, high performance applications such as joints on multi-storey buildings, highly stressed joints, extreme weather exposure or water immersion / exposure, the following priming and/or pre-treatment procedures must be followed:

Non-porous substrates
Aluminium, anodised aluminium, stainless steel, PVC, galvanised steel, powder coated metals or glazed tiles.
Slightly roughen surface with a fine abrasive pad.
Clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth.
Before sealing, allow a waiting time of > 15 minutes (< 6 hours).
Other metals, such as brass and titanium-zinc, clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth. After a waiting time of > 15 minutes (< 6 hours), apply Sika® Primer-3 N by brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours)
PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a waiting time of > 30 minutes (< 8 hours).
Glass must be cleaned with Isopropanol before application.

Porous substrates
Porous substrates must be primed using Sika® Primer-3 N applied by brush.
Before sealing, allow a waiting time of > 30 minutes (< 8 hours).
Adhesion tests on project specific substrates must be performed and procedures agreed with all parties before full project application.
For more detailed advice and instructions contact Sika Technical Services.
Note: Primers and activators are adhesion promoters and not an alternative to improve poor preparation / cleaning of the joint surface. Primers also improve the long term adhesion performance of the sealed joint.

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Masking
It is recommended to use masking tape where neat or exact joint lines are required. Remove the tape within the skinning time after finishing.

Joint Backing
After the required substrate preparation, insert a suitable backing rod to the required depth.

Priming
If required, prime the joint surfaces as recommended in substrate preparation. Avoid excessive application of primer to avoid puddles at the base of the joint.

Application
Sikasil®-119 MP is supplied ready to use.
Prepare the end of the foil pack or cartridge, insert into the sealant gun and fit the nozzle. Extrude Sikasil®-119 MP into the joint ensuring that it comes into full contact with the sides of the joint. Avoid any air entrapment.

Finishing
Immediately after application, Sikasil®-119 MP must be firmly tooled against the joint sides to ensure adequate adhesion and a smooth finish.
Use a compatible tooling agent to smooth the joint surface. Water can be used. Do not use tooling products containing solvents.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Remover-208 immediately after use. Hardened material can only be removed mechanically. For cleaning skin, use Sika® Cleaning Wipes-100.

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.

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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