

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.

- Window and door installation
- Tile parameter joints
- General joint sealing

CHARACTERISTICS / ADVANTAGES

- 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

Chemical base	Neutral cure silicone	
Packaging	600 ml foil pack, 20 foil packs per box	
Colour	▪ White ▪ Clear ▪ 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, upside down and protected from direct sunlight and at temperatures below +27 °C.	
Density	~1.45-1.55 kg/l (basic colors) ~0.95-1.05 kg/l (clear color)	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	~30-50 (basic colors) ~20-30 (clear color)	(ISO 868)
Tensile Strength	~1.0 MPa (basic colors) ~0.5 MPa (clear color)	(ISO 8339)

Elongation at Break	≥ 250% (basic colors) ≥ 200% (clear color)	(ISO 37)
Elastic Recovery	> 80 %	(ISO 7389)
Movement Capability	± 25% (basic colors) ± 20% (clear color)	(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. The joint width shall be ≥ 6 mm and ≤ 45 mm. The joint depth shall be ≥ 6 mm and ≤ 15 mm. A width to depth ratio of 2:1 must be maintained. ▪ All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. The basis for calculation of the necessary joint widths are the type of structure and its dimensions, the technical values of the adjacent building materials and the joint sealing material, as well as the specific exposure of the building and the joints. ▪ For larger joints please contact Sika technical service.	

APPLICATION INFORMATION

Consumption	Joint Width (mm)	Joint Depth (mm)	Joint Length (m) per 600 ml foil pack
	10	10	6
	15	8	5
	20	10	3
	25	12	2
	30	15	1.3
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 (basic colors) (23 °C / 50 % r.h.) ~05 minutes (clear color)		(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 CONSIDERATION

- 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

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 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 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

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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

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Product Data Sheet

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