BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-116 GP

General Purpose Acetoxy Cure Silicone Sealant

DESCRIPTION

Sikasil®-116 GP is a 1-component, general purpose silicone sealant.
Suitable for use in hot an tropical climatic conditions.

USES

Sikasil®-116 GP is designed for glazing and weatherproofing applications on non-porous substrates such as glass or glazed ceramic tiles. Sikasil®-116 GP can be used for inside and outside applications.

FEATURES

- Good resistance to shrinkage, cracking and discoloration
- UV and weathering resistant
- Good adhesion to a variety of non-porous substrates

SUSTAINABILITY

- Certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL)

CERTIFICATES AND TEST REPORTS

- ASTM C920
- VOC test report (USEPA method 24)
- VOC test report (SCAQMD Rule 1168)
- VOC Emission Test Report (CDPH)

PRODUCT INFORMATION

Composition	Acetoxy silicone	
Packaging	280 ml cartridges, 12 cartridges per box	
Colour	Clear, white, cream, brown, beige and grey (other colors on request)	
Shelf life	Sikasil®-116 GP 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	Sikasil®-116 GP shall be stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.	
Density	~0.98 kg/l	
Volatile organic compound (VOC) content	<50 g/l	(USEPA method 24)

TECHNICAL INFORMATION

Shore A hardness	20 (±5, after 28 d at 23 °C / 50 % r.h.)	(ASTM D661)
Elongation	~400 %	(ASTM D412)
Service temperature	-40 °C min. / +180 °C max.	

APPLICATION INFORMATION

Sag flow	Non-sag	(ASTM C639)
Ambient air temperature	+5 °C min. / +45 °C max.	
Substrate temperature	+5 °C min. / +45 °C max.	
Curing rate	~3 mm/24 h (23 °C / 50 % r.h)	(CQP 049-2)
Skinning time	~15 min (23 °C / 50 % r.h.)	(CQP 019-1)
Tack free time	~25 min (23 °C / 50% r.h.)	(CQP 019-1)

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.

FURTHER DOCUMENTATION

- Safety Data Sheet
- Pre-treatment Chart Sealing and Bonding

IMPORTANT CONSIDERATIONS

- Do not use Sikasil®-116 GP on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.
- Do not use in totally confined spaces, Sikasil®-116 GP requires atmospheric moisture to cure.
- Sikasil®-116 GP is not recommended for porous substrates, such as concrete, stone, marble and granite. Bleeding can occur when Sikasil®-116 GP is used on these substrates.
- Sikasil®-116 GP is not recommended for use on submerged joints, joints where physical abuse or abrasion are likely to occur, structural glazing or insulated glazing, and food contact applications.
- Do not use Sikasil®-116 GP for medical or pharmaceutical uses.
- Acetic acid released during the curing of Sikasil®-116 GP can cause the corrosion of mirror silver and sensitive metals such as cooper, brass and lead.
- Do not use Sikasil®-116 GP on alkaline surfaces such as concrete, plaster and brick.

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 clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sikasil®-116 GP adheres without primers and/or activators. However, for optimum adhesion and critical, high performance applications, such as on multi-story buildings, highly stressed joints, extreme weather exposure or water immersion, the following priming and/or pretreatment procedures shall be followed:

Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals or glazed tiles have to be cleaned and pre-treated using Sika® Activator-205, wiped on with a clean towel. Before sealing, allow a flash-off time of >15 minutes (<2 hours). Other metals, such as copper, brass and titanium-zinc, also have to be cleaned and pre-treated using Sika® Activator-205, wiped on with a clean towel. After the necessary flash-off time, use a brush to apply Sika® Primer-3 N and allow a further flash-off time of >30 minutes (<4 hours) before sealing the joints. PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Before sealing, allow a flash-off time of >30 minutes (<4 hours). Glass shall be cleaned with isopropyl alcohol before application.

Note: Primers are adhesion promoters. They are neither a substitute for the correct cleaning of a surface, nor do they improve the strength of the surface significantly. For more detailed advice and instructions please contact our Technical Department.

APPLICATION METHOD / TOOLS

Sikasil®-116 GP is supplied ready to use.
After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a cartridge into the sealant gun and extrude Sikasil®-116 GP into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment.
Sikasil®-116 GP sealant must be firmly tooled against the joint sides to ensure adequate adhesion.
It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time.
Do not use tooling products containing solvents.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208. Once cured, residual material can only be removed mechanically.

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 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.

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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.