BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-111 Multipurpose

SILICONE WEATHERPROOFING BUILDING SEALANT

DESCRIPTION

Silicone Weatherproofing Building Sealant is a one-component neutral curing silicone sealant with excellent adhesion, weatherability and elasticity for weather sealing in curtain wall and building facades, especially suits applications in the areas with large difference in temperature and low humidity. It easily extrudes in any weather and quickly cures at room temperature by reaction with moisture in the air to form a durable silicone rubber seal.

USES

- For weatherproofing sealing nonstructural curtain wall joints, facade joints and system.
- Weather sealing in metal (not including copper), glass, stone, aluminium panel, and plastic.
- Excellent adhesion to most common building material.

CHARACTERISTICS / ADVANTAGES

- One-component, neutral-cured with excellent adhesion, weatherability and elasticity for weather sealing in curtain wall and building facades.
- Excellent weatherability and high resistance to ultraviolet radiation, heat and humidity, ozone and temperature extremes.
- With good adhesion and compatibility with most building material.
- Remain flexible over a temperature range of -40 °C to +150 °C.

PRODUCT INFORMATION

Composition	One component neutral curing silicone	
Packaging	300 mL	
Shelf life	12 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are meet.	
Storage conditions	Stored in cool and dry conditions, where it is protected from direct sunlight and at temperatures below +27 °C.	
Colour	Paste / Clear, Black, White, Bronze, Brown, Beige.	
Density	~1.45 – 1.55 g/cm³ (colored) ~0.95 – 1.05 g/cm³ (transparent)	(ISO 868) at +23 ± 2 °C, 50 % r.h

TECHNICAL INFORMATION

Shore A hardness	30 - 50 (colored) 20 - 30 (transparent)	(ISO868)
Tensile strength	~1 MPa (colored) ~0.5 MPa (transparent)	(ISO 8339)
Modulus of elasticity in tension	0.5 MPa (colored) 0.35 MPa (transparent)	(ISO 8339) at +23 °C
Tensile strain at break	250 % (colored) 400 % (transparent)	(ISO 37)
Movement capability	25 %	(ASTM C719)
Elastic recovery	80 %	(ISO 7389)
Joint design	The joint width must be designed to be within the movement capability of the sealant. In general the joint width must be > 6 mm and < 12 mm. The width to depth ration of ~ 2 : 1 must be respected.	

Joint Width	6 mm	9 mm	12 mm
Joint Depth	4 mm	5 mm	6 mm
Joint Length / 300 mL	~12.5 m	~6.5 m	~4 m

Extrusion rate	100 – 200 mL/min (colored) 100 – 300 mL/min (transparent)	(GB/T 13477)

APPLICATION INFORMATION

Sag flow	≤ 1 mm	(ISO 7390)
Ambient air temperature	+5 °C min. / +40 °C max.	
Substrate temperature	+5 °C min. / +40 °C max.	
Curing rate	3 mm / day (at +23 ± 2 °C, 50 % r.h)	
Tack free time	~10 - 30 minutes (colored) ~3 - 10 minutes (transparent)	(CQP 019-1) at +23 °C / 50 % r.h

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.

IMPORTANT CONSIDERATIONS

- Unsuitable for curtain wall structural adhesive.
- Unsuitable for the airproof location, because it is required to absorb moisture in air to cure for the sealant.
- Unsuitable for the frosty or moist surface.
- Unsuitable for the continually soggy place.
- Can not be used if the temperature is below +4 °C or above +50 °C on the surface of the material.

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

APPLICATION METHOD / TOOLS

- Clean with solvents such as toluene or acetone to keep the substrate surfaces completely clean and dry.
- For better appearance cover outside of joint areas with masking taps before application.
- Cut nozzle to desired size and extrudes sealant to joint areas. Tool immediately after sealant application and remove masking tape before sealant skins.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208 and/or Sika® Top-Clean T. 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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