

PRODUCT DATA SHEET

SikaSeal[®]-305 Glass and Weather Seal

A NEUTRAL-CURING SILICONE SEALANT WITH A HIGH MOVEMENT CAPABILITY AND EXCELLENT ADHESION TO A WIDE RANGE OF SUBSTRATES

DESCRIPTION

SikaSeal[®] 305 is a neutral-curing silicone sealant with a high movement capability and excellent adhesion to a wide range of substrates.

USES

- Aluminium
- Composite materials
- Panels(ACP)
- Glass
- Metals
- Coated and painted metals
- Plastics
- Wood

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion
- High movement capability
- Weather resistant
- Outstanding UV resistance
- High strength
- Interior & Exterior
- Permanent flexibility

PRODUCT INFORMATION

Composition	1-C silicone
Packaging	300ml Cartridge, 25 cartridges per box 600ml sausage (black only), 20 sausages per box
Colour	Black, Grey
Shelf life	12 months (when stored below 25°C)
Storage conditions	Below 25°C
Density	~1.09kg/l
Shore A Hardness	~25
Tensile Strength	~1.0 N/mm ²
Modulus of Elasticity in Tension	~0.4 N/mm ²
Elongation at Break	~900%
Tear Propagation Resistance	~4 N/mm
Movement Capability	± 50%

Service Temperature	-40°C to +150°C approx. STANDARD THERMAL RESISTANCE ~180°C SHORT TERM THERMAL RESISTANCE ~200°C For 4 hours. ~220°C For 1 hour.
Ambient Air Temperature	+5°C to +40°C
Curing Rate	SikaSeal® 305 cures by reaction with atmospheric moisture. The reaction thus starts at the surface and proceeds to the core of the joint. The curing speed depends on the relative humidity and the temperature (see diagram 1 below). Heating above 50°C to speed-up the vulcanization is not advisable as it may lead to bubble formation. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly.
Skimming time	~15 minutes.
Tack free time	~180 minutes.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from oil, grease and dust, loose and friable materials. Advice on specific applications and surface pretreatment methods is available from the Technical Service Department.

APPLICATION METHOD / TOOLS

Application: After suitable joint and substrate preparation, SikaSeal®-305 Glass and Weather Seal is gunned into place. Joints must be properly dimensioned as changes are no longer possible after construction. For optimum performance the joint width should be designed according to the movement capability of the sealant based on the actual expected movement. The minimum joint depth is 6 mm and a width / depth ratio of 2:1 must be respected. For backfilling it is recommended to use closed cell, sealant compatible foam backer rods e.g. high resilience polyethylene foam rod. If joints are too shallow for backing material to be employed, we recommend using a polyethylene tape. This acts as a release film (bond breaker), allowing the joint to move and the silicone to stretch freely. For more information please contact our Technical Department.

Tooling and finishing: Tooling and finishing must be carried out within the skin time of the adhesive. When tooling freshly applied SikaSeal®-305 Glass and Weather Seal press the adhesive to the joint flanks to get a good wetting of the bonding surface.

CLEANING OF EQUIPMENT

Uncured SikaSeal®-305 Glass and Weather Seal may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using Sika® Handclean Towel or a suitable industrial hand cleaner and water, do not use solvents.

IMPORTANT CONSIDERATIONS

Restrictions on Use: Most Sikasil® WS, FS, SG, IG, WT, AS and other engineering silicone sealants manufactured by Sika are compatible with each other. Sikasil® WS and FS sealants are compatible with SikaGlaze IG sealants. All other sealants have to be approved by Sika before using them in combination with SikaSeal®-305 Glass and Weather Seal. Where two or more different reactive sealants are used, allow the first to cure completely before applying the next. Do not use SikaSeal®-305 Glass and Weather Seal on pre-stressed polyacrylate and polycarbonate elements as it may cause environmental stress cracking (crazing). The compatibility of gaskets, backer rods and other accessory materials with SikaSeal®-305 Glass and Weather Seal must be tested in advance. Joints deeper than 15 mm should be avoided. The above information is offered for general guidance only. Advice on specific applications will be given on request.

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.

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.

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 containing physical, ecological, toxicological and other safety-related 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 cur-

rent 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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