

PRODUCT DATA SHEET

SikaSeal® Construction Silicone +

For general construction, PVCu frames and glazing

PRODUCT DESCRIPTION

SikaSeal® Construction Silicone + is a low-modulus, fast-curing acetoxysilicone sealant offering excellent flexibility and durability. Its fungal resistant formulation ensures resistance to black mould growth in areas exposed to high humidity, making it ideal for both interior and exterior use. Forming a weather tight, waterproof seal with minimal dirt pickup, it accommodates $\pm 20\%$ joint movement and bonds strongly to a wide range of substrates, including PVCu, brick, glass, aluminium, plastics and timber.

USES

- General construction joints, glazing, perimeter pointing and weather sealing.
- Sealing and perimeter pointing of PVCu, aluminium and timber windows and door frames.
- Weathersealing to pre-formed panels and formwork.
- Glass to glass and glass to aluminium weathersealing.
- Sealing around PVCu profile, trim and cladding.
- Weather sealing to pre-formed panels and formwork.
- Cap glazing and remedial glazing sealing.
- General draughtproofing.

PRODUCT INFORMATION

Chemical Base	Silicone
Packaging	295 ml cartridge
Colour	White, Translucent, Brown, Black, Grey, Anthracite.
Shelf Life	24 months from date of manufacture if stored correctly in unopened packaging
Storage Conditions	Store in cool dry conditions between +5 and +25 °C
Density	$\sim 1 \text{ g/cm}^3$

TECHNICAL INFORMATION

CHARACTERISTICS / ADVANTAGES

- Faster curing than conventional low modulus sealants.
- Low dirt pickup.
- Flexible - movement accommodation of $\pm 20\%$.
- Waterproof seal.
- Contains a powerful anti fungal compound to prevent mould growth to the sealant.

APPROVALS / STANDARDS

Certified under the harmonized European (designated UK) standard EN 15651 for façade, glazing, cold climate and sanitary applications in compliance with the Construction Product Regulation.
Meets ISO 11600 F and G 20LM.

Shore A Hardness	~15 (ISO 868)
Secant Tensile Modulus	0.26 N/mm ² at 100 % (ISO 8339)
Elongation	>150 % (ISO 8339)
Elongation at Break	0.4 N/mm ² (ISO 8339)
Shrinkage	8 % (ISO 10563)
Elastic Recovery	>70 % (ISO 7389)
Movement Capability	20 % (ISO 9047)
Service Temperature	-40 to +150 °C

APPLICATION INFORMATION

Sag Flow	<2 mm (ISO 7390)
Tack Free Time	30 mins
Tooling Time	10 mins

VALUE BASE

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.

LIMITATIONS

- Not for use in conjunction with bitumen or asphalt, use Weather Mate.
- Do not use on lead or soft metals, use Lead Mate / SikaSeal® Construction Silicone Ultra.
- On highly porous surfaces such as new concrete, priming is advised or use SikaSeal® Construction Silicone Ultra.
- Not for use on substrates that may bleed oils, solvent or plasticisers.
- Do not use in the vicinity of, or in conjunction with the edge sealant of double glazed units, use SikaSeal® Construction Silicone Ultra.
- For use on uPVC and plastic components: Due to the wide variety and quality of these materials, the user must always carry out an adhesion test prior to use. For optimum adhesion, use SikaSeal® Construction Silicone Ultra.
- This product accommodates movement of ± 20 % of the joint width. For a higher movement factor, use SikaSeal® Construction Silicone Ultra.
- When perimeter pointing to G.G.F standards, use SikaSeal® Construction Silicone Ultra.
- Overpainting is not possible, for applications where overpainting is required, use Weather Mate or Stix-all.
- Do not use on cementitious substrates (including mortar) without primer, use SikaSeal® Construction Silicone Ultra.

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

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application. Glass, metal and aluminium should be cleaned with a proprietary solvent cleaner prior to application for optimum adhesion. Priming is generally not required, although we always advise testing small areas prior to use.

APPLICATION METHOD / TOOLS

Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut cleanly at an angle of 45 ° with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best results will be obtained by keeping an even pressure on the gun trigger and keeping the gun at a constant angle to the surface being sealed. Smooth down within 10 minutes of application. To ensure a proper bond, always smooth the sealant down using a spatula or piece of wood wetted with linseed oil or white spirits. An improved appearance can be achieved by placing masking tape to both sides of the joint and removing within 5 minutes of application.

Joint design:

Minimum width: 6 mm. Movement capacity will be impaired if the depth of the joint is greater than the width. For maximum movement accommodation, it is recommended that:

- The joint depth should be no less than 5 mm.
- Joint depth should be 5 mm for joints up to 10 mm wide.
- Joints of 10 - 20 mm in width should have a minimum depth of half the width. This should increase to a minimum depth of 10 mm for wider joints.
- For deep joints, reduce depth by using Expanding Foam or a suitable joint backer rod.
- All joints should be designed so that the seal is placed in a position which does not retain water or form a water trap. Triangular fillets should be no less than 12 mm across the face and should be finished with a flat or convex face.

CLEANING OF TOOLS

Uncured - Sika® Wonder Wipes or white spirit
Cured - Silicone Eater / mechanical means

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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



Product Data Sheet

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