

PRODUCT DATA SHEET

SikaSeal® Construction Silicone Ultra

For construction expansion joints & perimeter pointing

PRODUCT DESCRIPTION

SikaSeal® Construction Silicone Ultra is a low-modulus, neutral-cure sealant ensuring long-lasting flexibility and durability. It provides excellent adhesion to most common porous and non-porous substrates without the need for priming. Ideal for both interior and exterior applications, it is particularly suited to construction expansion joints and perimeter sealing around all types of door and window frames. This sealant forms a weather-tight seal with low dirt pickup, accommodates up to $\pm 25\%$ joint movement and bonds effectively to timber, brick, stone, PVCu, concrete and metal.

USES

- Expansion joints to stone, brick, concrete and composite panels.
- Perimeter pointing around all types of window and door frames.
- Sealing and as an adhesive onto PVCu, plastic trims and components.
- Bedding insulated glass units in accordance with relevant clauses of BS8000 Part 7.
- Construction and dilation joints where stress does not occur until fully cured.

- Weather sealing and joint sealing to pre-formed panels.
- Sealing soft metals such as lead, copper and zinc.
- General glazing sealing and draughtproofing, including repair work over existing sealant.
- Glass to glass and glass to aluminium sealing.
- Parapet and roof weather sealing applications.

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion - adheres to most common surfaces including glass, metals, plastics and wood.
- Low dirt pick up - important in PVCu work.
- Excellent flexibility - $\pm 25\%$.
- High resistance to plasticiser migration - may be used over water based and solvent based paints.
- Excellent external weathering properties.
- Suitable for use on polycarbonate.

APPROVALS / STANDARDS

- Conforms to ISO11600 F and G 25 LM.
- Certified under the harmonized European (designated UK) standard EN15651 for façade, glazing, cold climate and sanitary applications in compliance with the Construction Product Regulation.
- Passed CFR 21. 177.2600(e) food contact test (except white).

PRODUCT INFORMATION

Chemical Base	One component neutral cure silicone
Packaging	300 ml cartridge
Colour	White, Translucent, Grey
Shelf Life	18 months from date of manufacture (12 months for white)
Storage Conditions	Store in original unopened containers between +5 and +25 °C
Density	Colours - c. 1.02 g/cm ³ White - c. 1.35 g/cm ³

TECHNICAL INFORMATION

Shore A Hardness	~20 (ISO 868)
Tensile Strength	~0.3 MPa @ 100 % elongation (ISO 8339)
Shrinkage	<5 % (ISO 10563)
Elastic Recovery	>80 %
Movement Capability	25 % (ISO 11600)
Service Temperature	-50 to +150 °C
Joint Design	6 mm - 50 mm Maximum depth, 50 % of joint width
Elongation at break	>250 % (ISO 8339)

APPLICATION INFORMATION

Consumption	10.5 linear metres as a 6 mm diameter bead.
Curing Time	1-2 mm per 24 hours
Skin Time	5 - 25 mins

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Do not use in the manufacture of Aquariums, use Aqua Mate.
- Do not use on substrates that bleed oil, solvents or plasticisers.
- Not overpaintable, use Weather Mate or Stixall.
- Use as a mirror adhesive is not recommended, use Mirror Mate.

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 surfaces to be sealed must be clean, dry and free from dust, grease and other contaminants. 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. To ensure a proper bond, always smooth the sealant down using a wetted spatula or piece of wood. 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 6 mm for joints up to 10 mm wide.
- Joints of 10 - 20 mm in width should have a minimum depth of half the width.
- 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 sealant - Wonder Wipes

Cured sealant - Silicone Eater

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 the 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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Product Data Sheet

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