BUILDING TRUST

PRODUCT DATA SHEET

SikaSeal® Heat Resistant Silicone

High performance heat resistant sealant

PRODUCT DESCRIPTION

SikaSeal® Heat Resistant Silicone is a high modulus permanently flexible high temperature silicone which is temperature resistant up to 275 °C. Ideal for sealing industrial and high performance gaskets, oven doors etc.

USES

- As a gasket sealant.
- For joints and assemblies, which must be resistant to high temperatures in ducting, metal chimneys, indus trial/domestic ovens, heating appliances.

CHARACTERISTICS / ADVANTAGES

- Excellent temperature resistance: remains flexible from -40 °C to +275 °C.
- Low dirt pick up.
- Red colour – for easy installation identification (black also available).
- Excellent adhesion to non-porous surfaces.
- Waterproof seal.

PRODUCT INFORMATION

Packaging	295 ml Cartridge
Colour	Red, Black
Shelf Life	24 months from date of manufacture.
Storage Conditions	Store in cool dry conditions between + 5 °C and +25 °C.
Density	1.03 g/cm³
Shore A Hardness	ca. 25
Tensile Strength	0.7 MPa (ISO 8339)
Tensile Modulus of Elasticity	0.45 MPa at 100 % elongation (ISO 8339)
Shrinkage	< 5 %
Movement Capability	± 20 %
Service Temperature	-40 °C to +250 °C, +275 °C short term (up to 3 weeks)
Joint Design	Joint design should be as follows: Minimum width: 6 mm. Movement capacity will be impaired if the depth of the joint is greater than the width. For maximum movement accom-modation, 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 above 10 mm in width should be half the width in depth up to 20 mm and minimum 10 mm for wider joints. Maximum depth 50 % of joint width.
Elongation at break	250 % (ISO 8339)

APPLICATION INFORMATION

Consumption	7.3 linear metres in 9 x 9 mm fillet joint.
Ambient Air Temperature	+5 °C to +40 °C
Curing Rate	3 mm per 24 hours depending on temperature and humidity
Skin Time / Laying Time	20 minutes @ +23 °C / 50 % r.h.

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 on porous surfaces such as brick, concrete and stone.
- Do not use in conjunction with bitumen, lead or Asphalt.
- Not for use on substrates that may bleed oils, solvent or plasticisers.
- Do not use on soft metals such as lead or brass.
- On temperatures above +250 °C, slight discolouration may occur, but the joint will maintain its integrity.
- Do not use above +275 °C.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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. Highly porous substrates such as new plaster should first be primed with a dilution of SikaBond® PVA+ with water at a ratio of 1:3. Can be applied to slightly damp surfaces.

APPLICATION METHOD / TOOLS

The surfaces to be must be clean, dry and free from dust, grease and other contaminants.
Improve adhesion by wiping surface with white spirits.

Priming is generally not required, although we always advise testing small areas prior to use.
Cut the tip of the cartridge taking care not to damage the thread. Apply nozzle and cut at an angle of 45 ◦ with an opening slightly larger than the gap to be sealed. Apply using a standard sealant gun. Best res ults will be obtained by keeping an even pressure on the trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, al ways smooth the sealant down with a spatula or piece of wood wetted with soapy water. An improved joint appearance can be achieved by placing masking tape to both sides of the joint, removing within 5 minutes of application.

CLEANING OF TOOLS

Uncured sealant: Sika® Wonder Wipes or white spirit.
Cured sealant: SikaSeal® Silicone Remover.

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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