BUILDING TRUST

PRODUCT DATA SHEET

EVERBUILD® Heat Mate® Sealant

HIGH PERFORMANCE HEAT RESISTANT SEALANT

PRODUCT DESCRIPTION

Heat Mate Sealant is a high modulus permanently flexible 100% high temperature silicone which is temperature resistant up to 300°C. Ideal for sealing industrial and high performance gaskets, oven doors etc.

USES

- Multitude of Industrial uses
- As a gasket sealant.
- For joints and assemblies, which must be resistant to high temperatures in ducting, metal chimneys, industrial/domestic ovens, heating appliances.

CHARACTERISTICS / ADVANTAGES

- Excellent temperature resistance: remains flexible from -50 - +300°C
- Extremely low dirt pick up. – 1 hour tack free.
- Orange/red colour – for easy installation identification (black also available)
- Excellent adhesion to non-porous surfaces.
- Waterproof seal

Shrinkage	<5%
Application Temperature	+ 5 to 40°C
Stress	0.3 Mpa
Minimum Joint Width	6mm
Maximum Joint Width	30mm
Joint Ratio	Maximum depth 50% of joint width
Coverage	@ 10 linear metres 9 x 9mm fillet joint

PRODUCT INFORMATION

Packaging	295ml 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	1.04 g / cm^3

TECHNICAL INFORMATION

Shore A Hardness	20 - 25
Tensile Strength	1.0 Mpa
Movement Capability	+ or – 20%
Service Temperature	-50 to +300°C

Joint Design	Joint design should be as follows: Minimum width: 6mm. 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 5mm Joint depth should be 5mm for joints up to 10mm wide Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

APPLICATION INFORMATION

Curing Time	3mm per 24 hours
Skin Time	5 mins @ 20°C

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 Caulk with water at a ratio of 1:2. Can be applied to slightly damp surfaces.

APPLICATION METHOD / TOOLS

The surfaces to be sealed 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 45ºC 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 trigger and keeping the gun at a constant angle to the surface being sealed. To ensure a proper bond, always smooth the sealant down with a spatula or piece of wood wetted with linseed oil or white spirits. 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: white spirit. Cured sealant: Silicone Eater

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 285°C, slight discolouration may occur, but the joint will maintain its integrity.
- Do not use above 300°C.

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.

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.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards

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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