

PRODUCT DATA SHEET

EVERBUILD® Lead Mate® Sealant

A LOW MODULUS NEUTRAL CURE SEALANT FOR LEAD

PRODUCT DESCRIPTION

EVERBUILD® Lead Mate® Sealant is a low modulus, neutral cure sealant specifically designed to give exceptional adhesion to soft metals such as lead, brass etc. The product is specially formulated as an alternative to mortaring Lead Flashing and Sheet into Brick, Stone and Concrete.

USES

- As an alternative to mortaring in Lead flashing and sheet into brick, stone and concrete.
- Suitable as an expansion joint sealant.
- Weather sealing and joint sealing to pre-formed panels.
- Sealing soft metals such as lead, copper and zinc.
- Parapet and roof weather sealing applications.

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion to metals - will not stain (cement) or corrode soft metals unlike most conventional sealants
- Low dirt pick up
- Excellent flexibility +/- 25%.
- Excellent low and high (+150°C) temperature resistance.
- Low (<5%) shrinkage during vulcanisation.
- High resistance to plasticizer migration - may be used over water based and solvent based paints.
- Excellent external weathering properties.
- Certified under the harmonized European standard EN15651 for façade interior, exterior and cold climate applications in compliance with the Construction Product Regulation

Shrinkage	<5%
Tensile Modulus at 100%	ca. 0.3MPa
Elongation	

APPROVALS / STANDARDS

Conforms to ISO11600 F25 LM and EN15651-1 Class F25LM CC

PRODUCT INFORMATION

Chemical Base	Neutral cure silicone
Packaging	295ml cartridge
Colour	Lead grey
Shelf Life	12 months from date of manufacture
Storage Conditions	Store in original unopened containers between 15 and 30°C
Density	1.3-1.4g/cm ³
Shore A Hardness	20-30
Tensile Strength	0.6MPa (ISO8339 at break)

Elongation at Break	>200% (ISO8339)
Elastic Recovery	>70% (ISO7389)
Movement Capability	+ or -25%
Service Temperature	-50°C to + 150°C
Joint Design	6-40mm Maximum depth, 50% of joint width
Consumption	10.5 linear meters as a 6mm diameter bead
Ambient Air Temperature	+5°C to + 40°C
Skin Time	30 - 45 mins

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The surfaces to be 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

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

Maximum joint width without slumping is 40mm. When flashing into concrete walls with a wider joint, always fix the lead with stainless steel screws and plugs prior to applying the sealant.

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 12mm across the face and should be finished with a flat or convex face.

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 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. 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 EVERFLEX SILICONE EATER.

LIMITATIONS

- Do not use in conjunction with bitumen asphalt, neoprene and certain organic elastomers.
- Do not use on substrates that bleed oil, solvents or plasticisers.

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 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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