

US-M60

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Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	Ca. 2 mm/24h
Hardness	20 ± 5 Shore A
Density	1,03 g/ml
Elastic recovery (ISO 7389)	> 80 %
Maximum allowed distortion	25 %
Temperature resistance	-40 °C → 150 °C
Max. tension (DIN 53504)	1,50 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,39 N/mm ²
Elongation at break (DIN 53504)	> 600 %
Application temperature	5 °C → 35 °C

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product description

US-M60 is a high-quality, elastic one-component joint sealant/adhesive based on silicones

Properties

- Compatible with the backcoating of quality mirrors
- Very good adhesion on many materials
- Very easy to apply
- Permanent elastic after curing
- Low odour

Applications

- Bonding of mirrors
- Bonding of mirrors on uneven surfaces.
- Sealing of joints in mirror walls.

Packaging

Colour: transparent

Packaging: 310 ml cartridge

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Substrates

Substrates: all usual building substrates

Nature: clean, dry, free of dust and grease.

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. No primer needed for non-porous substrates.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary compatibility test.

Joint dimensions

Min. width for bonding: 10 mm

Min. thickness: 3 mm

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Uniseal reserves the right to modify products without prior notice.

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Application method

Apply product with the enclosed triangular nozzle in vertical beads to the back of the mirror. Depending on the dimension and weight of the mirrors, beads should be placed at equal distances between 10 to 20cm from each other. Use a double sided mirror tape for an initial tack and to create the necessary ventilation behind the mirror. See also "Remarks and Recommendations"

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with white spirit or Surface Cleaner immediately after use.

Finishing: With a soapy solution or before skinning.

Repair: With the same material

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label for more information.

Remarks

- Due to the wide variety of types of mirrors, we strongly recommend preliminary compatibility tests.
- Due to the low initial tack, the mirrors need to be supported during the curing process until the adhesive has fully cured. The time required depends on the weight/size of the mirror, temperature, relative humidity and the amount of product used.
- In order to avoid possible problems due to condensation, the mirror manufacturers as well as Uniseal recommend sufficient ventilation at the back of the mirror. As a guideline, an opening of 3-4mm should be left between the surface and the mirror. This can be assured by the use of double sided mirror tape.
- We recommend this minimal ventilation opening of 3-4mm to ensure correct curing of the adhesive/sealant. Full surface bonding is at own risk of the applicator.

- For larger mirrors always use the adhesive in combination with a very good and qualitative double-sided adhesive mirror tape.
- Mirrors that are fitted with a safety film at the back to avoid shattering must be pre-treated with an adhesion promoter. The use of convenient Surface Activator will ensure the best bonding performance on this type of safety film. Without the use of convenient Surface Activator the adhesive bond might be insufficient with the risk of an unsafe situation.

Environmental clauses

Lead regulation:

Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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