

US-440

Date: 01/07/2016

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Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 15 min
Curing speed * (20°C / 65% R.H.)	Ca. 4 mm/24h
Hardness	20 ± 5 Shore A
Density	Ca. 0,98 g/ml
Elastic recovery (ISO 7389)	> 90 %
Maximum allowed distortion	25 %
Temperature resistance	-60 °C → 120 °C
Max. tension (DIN 53504)	1,50 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,40 N/mm ²
Elongation at break (DIN 53504)	800 %
Application temperature	5 °C → 35 °C

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

Product description

US440 is a high quality, elastic, 1-component sealant based on silicones.

Properties

- Very easy to apply
- Colourfast and UV resistant
- Permanent elastic after curing
- Very good adhesion on many materials
- Typical acetic smell

Applications

- Building- and construction joints.
- All glazing and joint works.
- Connection joints.
- Sealing in refrigerators and container construction.
- Sealing in airconditioning systems.
- Sanitary applications.

Packaging

Colour: transparent, white, grey, black, brown,
Packaging: 280 gr cartridge - 30pcs/box

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, no pvc, not suitable for concrete

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 joints: 5 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth.

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 are 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

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 convenient Finishing Solution 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

- Because of the acid nature, certain metals (eg copper, lead) can be affected.
- Do not use on natural stones like marble, granite,...(staining). Use UNISEAL - US-MA1000 MA for this application.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- A total absence of UV can cause a color change of the sealant.
- In an acid environment or in a dark room, white silicone can slightly turn yellow. Under the influence of sunlight it will turn back to its initial colour.
- When finished with a finishing solution or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.
- We strongly recommend not to apply the product in full sunlight as it will dry very fast.
- Do not use on polycarbonate.
- Do not use in applications where continuous water immersion is possible.

Environmental clauses

Leed regulation:

Silicone US440 conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. 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. She 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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