

US-500

Revision: 01/07/2016

Page 1 from 2

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. 2 mm/24h
Hardness	28 ± 5 Shore A
Density	1,28 g/ml
Elastic recovery (ISO 7389)	> 80 %
Temperature resistance	-60 °C → 285 °C
Max. tension (DIN 53504)	1,50 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,35 N/mm ²
Elongation at break (DIN 53504)	± 500 %
Application temperature	5 °C → 35 °C

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

Product description

US500 is a temperature resistant, elastic, one-component silicone sealant and replaces all cork, felt, fiber, paper and rubber gaskets in all thicknesses and widths.

Properties

- Excellent resistance to fuels, oils and grease.
- High temperature resistance
- Very easy to apply
- Permanent elastic after curing
- Typical acetic smell

Applications

- Formation of gasket and sealing rings.
- Sealing between metal components.
- Sealing of heating installations.

Packaging

Colour: red

Packaging: 310 ml cartridge, other packaging on request

Shelf life

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

Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: metals

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

Surface preparation: No pretreatment required
We recommend a preliminary compatibility test.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with white spirit or 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.

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.

US-500

Revision: 01/07/2016

Page 2 from 2

Remarks

- Because of the acid nature, certain metals (eg copper, lead) can be affected.

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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