



BOSS[®] 537 SILICONE SEALANT

TECHNICAL DATA

Basis	Polysiloxane
Consistency	Stable Paste
Curing System	Moisture curing
Density (g/ml)	1.16 ± 0.01
Skin formation time* (22°C/45-55% R.H.) (min)	6-12
Curing speed * (22°C/45-55% R.H.) (mm/24 h)	2 - 3
Tensile strength** (N/mm ²) (ISO 37)	2.8 - 3.40
Elongation at break** (%) (ISO 37)	> 600
Hardness, shore A, points** (ISO 868)	40 ± 5
Maximum allowed distortion (%) (ISO 11600)	± 15
Elasticity modulus 100%** (N/mm ²) (ISO 37)	0.70
Elastic recovery ** (%) (ISO 7389)	> 80
Application temperature (°C)	5 to 35
Temperature resistance** (°C)	-50 to 280

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

** This information relates to fully cured product.

Description

BOSS[®] 537 is an elastic, single component engineering sealant based on silicone which withstands very high temperatures.

Properties

- Permanently elastic after curing
- Neutral curing, high modulus
- High adhesion force
- Temperature resistance up to 280°C
- MEKO free

Applications

- Sealing of heating installations
- Sealing in pumps and engines
- All sealing applications that require high temperature resistance

Packaging

Colour: Black, red

Packaging: 300 ml cartridge and other sizes available on request.

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, all metals

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

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a Boss activator or cleaner (see Technical Data Sheet).

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



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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.

Application Method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Boss Surface Cleaner immediately after use (before curing).

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health and Safety Recommendation

Take the usual labour hygiene into account. Consult label for more information. Dangerous. Respect the precautions for use.

Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 for this application.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- 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 Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Do not use in applications where continuous water immersion is possible.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

Environmental clauses

Leed regulation:

BOSS[®] 537-N 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.

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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