

BOSS® PU SL CONSTRUCTION SEALANT

TECHNICAL DATA

Uncured

Basis	Polyurethane
Consistency	Selfleveling
Curing system	Moisture curing
Skin Formation Time* (23°C / 50% R.H)	60 min
Curing Rate* (23°C / 50% R.H)	2mm / 24 hours
Density**	1.32 g/ml

Cured-Physical

Hardness, Shore A	35 ± 5
Viscosity	10000-48000 mPA.s Brookfield Spindle A, 10 rpm
Elastic recovery (ISO 7389)	> 90 %
Maximum Allowed Distortion	± 25 %
Max. tension (ISO 37)	1.66 N/mm ²
Elasticity modulus 100% (ISO 37)	0.55 N/mm ²
Elongation at break (ISO 37)	> 800 %
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 40 °C

* 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 PU SL Construction is a high quality, flexible, one-component, self-leveling joint sealant based on polyurethane.

Properties

- Very easy to apply
- Self-leveling
- Usable up to max. slope of 3%
- Excellent chemical resistance
- Good weather and UV resistance
- Permanently elastic after curing
- Very good adhesion on many materials
- No bubble formation within sealant (in high temperature and humidity applications)

- No staining on porous surfaces such as marble, granite and other natural stones

Applications

- Sealing of shrinking joints in concrete floors
- Sealing of floor joints
- All usual horizontal building, connection, expansion and dilatation joints
- Excellent for sealing of joints in environments where fuel and oil contact occurs
- Hydraulic fluids, lubricants, oils - Fuels (petrol and gasoline): Resistant to splash and spillage contact. Can withstand longterm intense contact-immersion (up to 1 week) in combination with primer expansion and dilatation joints



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Packaging

Colour: Concrete grey, other colors on request
Packaging: 600 ml sausage.

Shelf life

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

Substrates

Substrates: concrete, metals, ... Not suitable for PE, PP, PTFE and bitumen. Nature: rigid, clean, dry, free of dust and grease. In case of cast concrete, remove cement skin first. Surface preparation: BOSS PU SL has a good adhesion to most substrates. In critical situations or to obtain optimum adhesion, we advice to use Primer on porous surfaces.

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Always use Primer on natural stone, no primer on non-porous substrates. A preliminary adhesion test on every surface is recommended.

Joint dimensions

Min. width for joints: 10 mm

Max. width for joints: 30 mm

Min. depth for joints: 10 mm

Recommendation sealing jobs: joint depth = 0.8 x joint width. Use closed-cell PE-backing material in order to adjust the joint depth.

Application method

Use masking tape, if necessary. Apply BOSS PU SL evenly without air inclusions into the joint. Remove masking tape before skin formation.

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit before curing

Repair: With the same material

Health and Safety Recommendations

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

Environmental clauses

Leed regulation:

BOSS PU SL 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.

Remarks

- BOSS PU SL is self-leveling and therefore cannot be used for vertical joints.
- When painted with oxidative drying paints, disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- BOSS PU SL has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Chemical resistance strongly depends on concentration, temperature and exposure time. Some chemicals may lead to a change in volume, mechanical properties or the visual aspect of the sealant.

BOSS[®] PU SL CONSTRUCTION SEALANT

- It is recommended to do a compatibility test prior to application.
- Contact with bitumen, tar or other releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.
- Do not apply or cure in the presence of uncured silicone sealants, alcohol or other solvent cleaners.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

Standards and certificates

- Tested and conforms with DIN EN 14187-4:
Change in mass and volume following storage in chemical liquids
- Tested and conforms with DIN EN 14187-5:
Resistance to hydrolysis
- Tested and conforms with DIN EN 14187-6:
Adhesion/cohesion properties following storage in chemical liquids

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.

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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