

## Soudaflex 33SL

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### Technical data

Basis	Polyurethane
Consistency	Selfleveling
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 60 min
Curing speed * (23°C/50% R.H.)	2 mm/24h
Hardness**	35 ± 5 Shore A
Density**	1,32 g/ml
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 <sup>2</sup>
Elasticity modulus 100% (ISO 37)**	0,55 N/mm <sup>2</sup>
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.

### Product description

Soudaflex 33SL 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 long-term intense contact-immersion (up to 1 week) in combination with Primer 100.

### 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 and +25°C.

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 are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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**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:* Soudaflex 33SL has a good adhesion to most substrates. In critical situations or to obtain optimum adhesion, we advice to use Primer 100 on porous surfaces. Always use Primer 100 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 Soudaflex 33SL 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 or Soudal Surface Cleaner immediately after use (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.

**Remarks**

- Soudaflex 33SL 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).
- Soudaflex 33SL 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.
- It is recommended to do a compatibility test prior to application.
- Contact with bitumen, tar or other plasticizer 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 conform DIN EN 14187-4: Change in mass and volume following storage in chemical liquids.
- Tested and conform DIN EN 14187-5: Resistance to hydrolysis.
- Tested and conform DIN EN 14187-6: Adhesion/cohesion properties following storage in chemical liquids.
- Soudal Technical Bulletin No. 2017-WD-0101 dd. April 6, 2017 regarding chemical resistance.

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### Environmental clauses

#### *Leed regulation:*

Soudaflex 33SL 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. 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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