

SOUDAFLEX 33SL

Revision: 01/04/2024

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Technical Data

Base	Polyurethane	
Sag	Selfleveling	ASTM C 639
Curing system	Moisture Curing	
Skin Formation (*)	Ca. 60 min	@ 23°C & 50% R.H.
Curing time (*)	24-48 hrs, 1/4" diameter bead	@ 23°C & 50% R.H.
Hardness – Shore A	35 +/- 5	ASTM C 661
Density Ca. 1,35 g/ml	Ca. 1,35 g/ml	
Viscosity	10000-48000 mPA.s Brookfield Spindle	A, 10 rpm
Tensile Yield	240 psi	ASTM D 412
Elongation	> 800%	ASTM D 412
Movement capability	+/- 25%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No Cracking	ASTM C 793
Application temperature	5°C – 35°C	
Service temperature range	-40°C – 90°C	
VOC	4 % - 49,6 g/L	Directive 2004/42/EG

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

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: white, black

Packaging: 600ml foil bag, other packaging on request

Shelf life and storage:

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

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

Joint dimension:

Min. width for joints: 10mm
Max. width for joints: 30mm
Min. depth for joints: 10mm
Recommendation sealing jobs: joint depth = 0,8 x joint width.

Use closed-cell PE-backing material in order to adjust the joint depth.

Substrates:

Substrates: concrete, metals, ... Not suitable for PE, PP, PTFE, and bitumen.

Nature: clean, dry, free of dust and grease. In case of cast concrete, remove cement skin first.

Surface preparation: Soudaflex 33SL has good adhesion to most substrates. In critical situations or to obtain optimum adhesion, we advise using Primer 100 on porous surfaces. Always use Primer 100 on natural stone, no primer on non-porous substrates. We recommend a preliminary adhesion test on every surface.

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.

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 performing a compatibility test before

application).

- Soudaflex 33SL has good UV resistance but can discolor 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 discoloration and loss of adhesion.
- Do not apply or cure in the presence of uncured silicone sealants, alcohol, or other solvent cleaners.

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.
- USA: ASTM C 920, Type S, Use T and NT, M, A, and O.
- USA: Federal Specification TT-S-00230C, Type II, Class

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.

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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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