

Soudaflex 33SL

Description

Soudaflex 33SL is a high-quality, elastic, one-component, self-levelling joint sealant based on polyurethane.

Properties

- Easy to apply.
- Self-levelling.
- Usable up to max. slope of 4%.
- Good weather resistance.
- Permanently elastic after curing.
- Very good adhesion on many materials.
- No bubble formation within sealant in high temperature and humidity applications.
- Non – Staining on natural stone.
- Excellent resistance to many chemicals.

Application

- 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.



Technical data

Base	Polyurethane	
Consistency	Self-leveling	
Curing system	Moisture curing	
Specific Gravity (g/ml)	ca. 1.35	
Skin formation (minutes)	ca. 60	
Curing speed (mm/24h)	ca. 2	
Hardness (Shore A, Points)	35 ± 5	
Movement Accommodation	± 25	
Modulus at 100% Elongation (N/mm ²)	ISO 37	Approx. 0.55
Elastic recovery	ISO 7389	> 90
Elongation at Break (%)	ISO 37	> 800
Tensile Strength (N/mm ²)	ISO 37	ca. 1.66
Temperature Resistance (°C)	-30 to +90	
Application Temperature (°C)	+5 to +40	

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.



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Substrates

■ Substrate condition

The surface must be rigid, clean, dry, free of dust and grease.

■ Substrate preparation

Soudaflex 33SL has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high or water loaded joints, we recommend to follow a pre-treatment procedure. Porous surfaces should be primed with Primer 100. If needed non porous surfaces can be prepared with Soudal Surface Cleaner. Always use primer 100 on natural stone.

■ Substrate types

Soudaflex 33SL has a good adhesion to all usual building substrates, brick, concrete, metal, etc.
Soudaflex 33SL is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates.

We recommend a preliminary adhesion and compatibility test on every surface.

Joint Size

Minimum width for joints: 10 mm

Maximum width for joints: 40 mm

Minimum depth for joints: 10 mm

Recommendation for sealing jobs: joint depth = 0.8 x joint width.

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

Application method

■ Application method

Use masking tape if necessary. Apply Soudaflex 33SL evenly without air inclusions into the joint. Remove masking tape before skin formation.

■ Application tools

With a manual, pneumatic or battery caulking gun.

■ Cleaning method

Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

■ Repair method

Repair with the same material.

Health and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

Keep the area well-ventilated during use and curing of the product.

Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Concrete Grey

Packaging: 600g Sausage



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Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C.

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.

Remarks

- Soudaflex 33SL has good UV resistance but can discolor under extreme conditions or after long UV exposure.
- 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 good UV resistance but can discolour under extreme conditions or after 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.
- Do not apply or allow to 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.
- 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.

This technical data sheet supersedes all earlier versions. The information provided is based on our tests and practical experience and is supplied in good faith as general guidance only, without creating any liability. Since materials, substrates, application design, and processing conditions vary widely and are outside our control, we cannot accept responsibility for the results obtained from use of this information. The user must verify suitability for the intended application through their own testing, and preliminary trials are recommended in all cases. The manufacturer reserves the right to change product specifications without prior notice.