



Soudaflex 20LM

Product description

Soudaflex 20LM is a high quality, elastic, 1-component sealant based on polyurethane.

Properties

- Easy to apply
- Permanently elastic after curing
- Low modulus
- No bubble formation within sealant in high temperature and humidity applications
- Very good adhesion on many materials
- Good UV resistance
- Can be painted
- Excellent resistance to many chemicals

Applications

- All usual building joints with high movement.
- Expansion and connection joints in the building industry: sealing of joints in prefabricated buildings, sealing between window, door frames and walls.
- Expansion joints between many different construction materials.



Technical data

Base		Polyurethane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 40 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.24 g/ml
Maximum allowed joint movement		± 25 %
Elasticity modulus	ISO 37	ca. 0.60 N/mm ²
Elastic recovery	ISO 7389	> 80 %
Elongation at break	ISO 37	> 800 %
Maximum tension	ISO 37	ca. 1.16 N/mm ²
Hardness		29 ± 5 Shore A
Application temperature		+5°C → +40°C
Temperature resistance		-30°C → +90°C

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

Substrates

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

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- **Substrate preparation**
Soudaflex 20LM 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 (see Technical Data Sheet). Always use primer 100 on natural stone.
- **Substrate types**
Soudaflex 20LM has a good adhesion to following substrates: all usual building substrates, brick, concrete, metal, etc.. Soudaflex 20LM has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- **Application method**
Apply the product with a manual, pneumatic or accu caulking gun.
- **Cleaning method**
Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Cured product can only be removed mechanically.
- **Finishing method**
With Finishing Solution before skinning.
- **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: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Standards and certificates

- Meets ASTM C-920 Type S, Grade NS Class 35, Use T,NT, A, and M
- Conform ISO 11600 F 25LM

Joint dimensions

- Min. width for joints: 5 mm
Max. width for joints: 40 mm
Min. depth for joints: 5 mm
Recommendation sealing jobs: joint width = 2 x joint depth.

Environmental clauses

- Leed regulation: Soudaflex 20LM 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

- Soudaflex 20LM may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

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- Soudaflex 20LM has a good UV resistance but can discolour under extreme conditions or after long UV exposure.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- 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.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Do not use on polycarbonate.
- Soudaflex 20LM can not be used as a glazing sealant.
- Do not use on natural stones like marble, granite,...(staining).
- 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 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. It is general in nature and does not constitute any liability. 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. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.