

## SOUDAFLEX 20LM

### Technical Data

Basis	Polyurethane+
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 40 min
Curing speed* (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	Ca. 29 ± 5 Shore A
Density	Ca. 1.24 g/mL
Elastic recovery (ISO 7389)**	> 80%
Maximum allowed distortion (ISO 11600)	± 25%
Max. tension (ISO 37)**	Ca. 1.16 N/mm <sup>2</sup> (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.60 N/mm <sup>2</sup> (MPa)
Elongation at break (ISO 37)**	> 800%
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 35 °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 20LM is a high quality, elastic, 1-component sealant based on polyurethane+ developed by Soudal.

### Properties

- Very 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
- Excellent resistance to UV radiation
- Excellent resistance to many chemicals
- Paintable

### Applications

- All usual building joints with high movement.
- Connection joints between window- and doorframes and walls.
- Expansion joints between many different construction materials.
- Joints with large movement.

### Packaging

Colour: concrete grey

Packaging: 600 mL sausage

### Shelf life

12 months in original, unopened packaging in a cool and dry storage place with temperature between +5°C and +25°C.

### Chemical resistance

Resistant to intermittent exposure to salt water, detergents, fuels, oils, weak acids and bases (*preliminary test required*). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons..

### Substrates

**Substrates:** all usual building substrates, brick, concrete, metals, ...

**Nature:** rigid, clean, dry, free of dust and grease.

**Surface 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 pretreatment procedure. Prepare non-porous surfaces with a Soudal **Surface Activator** or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Soudal **Primer 100**. Always use **Primer 100** on *natural stone*. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any

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substrate. Due to the wide variety materials used in façade technology a preliminary compatibility test is necessary.

### Joint dimensions

	JOINT	
	Width	Depth
	Min	Max
	5 mm	5mm
	40 mm	½ width
Recommendation for sealing: width = 2x depth		

### Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaflex 20LM evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

*Application method:* With manual- or pneumatic caulking gun.

*Cleaning:* Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use. cured Soudaflex 20LM can only be removed mechanically.

*Finishing:* With a soapy solution or Soudal Finishing Solution before skinning.

*Repair:* With the same material.

### Health- and Safety Recommendations

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

### Remarks

- Soudaflex 20LM is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- Soudaflex 20LM has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in colour does not affect the technical properties of the product.

- 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 discolouration and loss of adhesion.
- Do not use in applications where continuous water immersion is possible.
- Not suitable for bonding aquariums.
- Do not use on polycarbonate.
- Soudaflex 20LM cannot be used as a glazing sealant.
- Do not use on natural stones like marble, granite,...(staining).

### Standards and certificates

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

### 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.

### 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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