

Builders PU LM

Description

Builders PU LM is a high-quality, elastic, one-component sealant based on polyurethane.

Properties

- Very easy to apply.
- Permanently elastic after curing.
- Very good adhesion on many materials.
- Excellent resistance to UV radiation.
- Excellent resistance to many chemicals.

Application

- Expansion joints in buildings with high movement, highways, and water conservancy projects.
- Bonding and joint sealing for precast panels, wood, aluminum, and PVC joinery seams, curtain walls.
- Concrete roof tiles in construction areas.
- Connection joints between window and door frames and walls.
- Expansion joints for other traditional construction materials.



Technical data

Base	Polyurethane Consistency	
Consistency	Stable paste	
Curing system	Moisture curing	
Specific Gravity (g/ml)	1.20 ± 0.06	
Skin formation (minutes)	60 to 150	
Curing speed (mm/24h)	2 to 3	
Slump (mm)	< 1.5	
Hardness (Shore A, Points)	ISO 868 / ASTM D2240	30 ± 5
Movement Accommodation	± 25 to 50	
Modulus at 100% Elongation (N/mm ²)	Approx. 0.38	
Elongation at Break (%)	ISO 37 / ASTM D412	> 600
Tensile Strength (N/mm ²)	> 1.6	
Temperature Resistance (°C)	-30 to +90	
Application Temperature (°C)	+5 to +35	

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.
- Substrate preparation
Builders PU LM has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints

Builders PU LM

exposed to extreme weather conditions, 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

Builders PU LM has a good adhesion to all usual building substrates, brick, concrete, metal, etc. Builders PU LM 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: 5 mm

Maximum width for joints: 40 mm

Minimum depth for joints: 5 mm

Recommendation for sealing jobs: joint width = 2 x joint depth.

Application method

■ Application method

Apply the product with a manual, pneumatic or a battery-operated caulking gun.

■ Cleaning method

Swiftly clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Cured product can only be removed mechanically.

■ Finishing method

With Soudal 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: Grey

Packaging: 600g Sausage

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.

Remarks

- Builders PU LM has a good UV resistance but can discolor under extreme conditions or after long UV exposure.
- Discoloration of the product due to chemicals, high temperature, UV-radiation may occur.
- Do not apply or allow to cure in the presence of uncured silicone sealants, alcohol or other solvent cleaners.



Builders PU LM

- 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.
- Builders PU LM can not be used as a glazing sealant.
- Do not use on natural stones like marble, granite due to staining. For this application use Soudaseal 212 CS.
- 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.