

Seal and Bond Polyurethane

Revision: 26/02/2020

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Technical data

Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 15 min
Curing speed * (23°C/50% R.H.)	3 mm/24h
Hardness**	40 ± 5 Shore A
Density	1,30 g/ml
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	1,70 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,80 N/mm ²
Elongation at break (ISO 37)**	700 %
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

Seal and Bond Polyurethane is a high quality, elastic, 1-component sealant based on polyurethane.

Properties

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

Applications

- All sealing and bonding applications in the building industry.
- Structural bondings in vibrating constructions.
- Sealing of shrinking joints in concrete floors.
- Bonding of roof tiles.

Packaging

Colour: white, black, grey, terra cotta, brown
Packaging: 310 ml alu cartridge, 300 ml foilbag, 600 ml foil bag

Shelf life

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

Substrates

Substrates: all usual building substrates, metals, polyesters, ...

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

Surface preparation: Apply Primer 100 on porous substrates. Always use Primer 100 on natural stone. All smooth surfaces can be treated with Soudal Surface Activator. No adhesion on glass. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

Joint dimensions

Min. width for bonding: 2 mm

Min. width for joints: 5 mm

Max. width for bonding: 10 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

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

Remark: 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. 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. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Application method

Application method: With a manual, pneumatic or accu caulking gun.

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

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

Repair: With the same material.

Environmental clauses

Leed regulation:

Seal and Bond Polyurethane 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.

Health- and Safety Recommendations

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

Remarks

- When painted with oxidative drying paints disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Seal and Bond Polyurethane can not be used as a glazing sealant.
- Do not use in applications where continuous water immersion is possible.
- Not suitable for bonding aquariums.
- Seal and Bond Polyurethane has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- 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.
- When finished with a finishing solution or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.
- We strongly recommend not to apply the product in full sunlight as it will dry very fast.

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