

Silirub 2

Product description

Silirub 2 is a high quality, elastic one-component joint sealant based on silicone.

Properties

- Very easy to apply
- Excellent UV-resistance
- Neutral curing
- Excellent moisture resistance
- Low modulus
- Very good adhesion on many materials
- Very good resistance to ageing
- Permanently elastic after curing
- Not paintable
- Not suitable for natural stone
- MEKO free



Applications

- All usual building joints with high movement.
- Glazing and joint works.
- Expansion joints between many different construction materials.
- Sealing between uPVC, treated wooden and metal profiles and glass.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 9 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.00 g/ml (transp, brilliant white) ca. 1.20 g/ml (colours)
Maximum allowed joint movement		±25%
Elasticity modulus	ISO 37	ca. 0.27 N/mm ²
Elastic recovery	ISO 7389	> 80%
Elongation at break	ISO 37	> 800%
Maximum tension	ISO 37	ca. 1.05 N/mm ²
Hardness		ca. 23 ± 5 Shore A
Water vapour diffusion resistance factor (μ)		655
Water vapour permeability (Sd)		2.40 m
Application temperature		+5°C → +35°C
Temperature resistance		-60°C → +180°C

Silirub 2

Artificial weathering

ASTM C793

No cracking

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

Silirub 2 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. Soudal Surface Cleaner can be used to clean and degrease a non-porous substrate. Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet). All substrates should be tested for suitability with regard to adhesion and compatibility.

■ Substrate types

Silirub 2 has a good adhesion to following substrates: all common materials, anodized aluminium, stainless steel, concrete, glass, lacquered wood, metal, PVC, ceramic tiles. Silirub 2 has no good adhesion or is not suitable for bituminous substrates, PE, PP, PTFE (Teflon®).

Application method

■ Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply the product evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that finishing solution comes between the joint edges and sealant (to prevent adhesion loss). It is important to ventilate well the places where the product is applied. Continue to ventilate throughout the curing time.

■ Application tools

With a manual, pneumatic or battery caulking gun.

■ Cleaning method

Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Silirub 2 can only be removed mechanically.

■ Finishing method

With Finishing Solution before skinning.

■ Repair method

Repair with Silirub 2.

Compatibility

■ Compatibility with glass

Tests carried out in our laboratories show that the product is compatible with most edge seals of insulating double glazing and conventional PVB films. We cannot give a full guarantee though, seen the continuous modifications in these systems. We recommend a compatibility test for both double glass systems and laminated glass systems. Due to the large number of edge sealing systems on the market, it is impossible to test the compatibility of all combinations with glazing sealants.

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: 18 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened the product has only a limited shelf life.

Silirub 2

Standards and certificates

- ATG - Technical Approval (Belgium)
- Conform ISO 11600 F 25LM
- Conform ISO 11600 G 25LM

Joint dimensions

- Min. width for joints: 5 mm
- Max. width for joints: 30 mm
- Min. depth for joints: 5 mm
- Recommendation for sealing jobs: joint width = 2 x joint depth

Environmental clauses

- Leed regulation: Silirub 2 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

- Do not use on natural stones like marble, granite,...(staining).
- A total absence of UV can cause a color change of the sealant.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- We strongly recommend not to apply Soudal finishing solution in full sunlight as it will dry very fast in these circumstances. On certain surfaces Soudal finishing solution can cause staining. A preliminary test is always recommended.
- When finished with Soudal finishing solution, make sure that the adhesion 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 the finishing solution.
- Do not use as structural glazing adhesive.
- Do not use on polycarbonate.
- Not suitable for bonding aquariums.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- When applying, make sure not to spill any sealant on the surface of materials next to the joint. Using tape on the surface next to the joint can prevent this.
- 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.
- Do not use in applications where continuous water immersion is possible.
- Once opened, the product has a limited shelf life.

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.