



Silirub 301 AC

Revision: 01/02/2020

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Technical Data:

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 8 min
Curing speed * (20°C / 65% R.H.)	Ca. 3 mm/24h
Hardness	23 ± 5 Shore A
Density	Ca. 1,02 g/ml
Elastic Recovery (ISO7389)	>90%
Maximum Allowed distortion	25%
Temperature resistance	-40 °C → 180 °C
Tensile strength (ISO 8339)	2.1 N/mm ²
Elasticity modulus 100% (DIN 53504)	0.50 N/mm ²
Elongation at break (ISO 37)	500 %
Application Temperature	5°C → 35 °C

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product:

Silirub 301 AC is a high quality, elastic, one-component high-modulus silicone sealant for glazing and industrial applications.

Characteristics:

- Non-sagging
- Solvent free
- Easy to apply, good extrusion
- Short skin formation time
- Very good adhesion on many materials
- Permanent elastic after curing

Applications:

- Glass and windows construction
- Sealing of joints between glazing and supporting structure

Packaging:

Colour: Black, White, Transparent
Packaging: 280ml cartridge

Shelf Life:

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

Surfaces:

Substrates: All usual building substrates

Nature: rigid, clean, dry, free of dust & grease

Surface preparation: Porous surfaces should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Joint Size:

Minimum Width: 5mm

Maximum Width: 30mm

Minimum Depth: 5mm

Recommendation sealing jobs: joint width = 2 x joint depth

Application Method:

Application Method: With manual, pneumatic or electric caulking gun.

Application temperature: +5°C to +35°C

Surface temperature: +5°C to +35°C

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use.

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

Repair: With the same material.

Health-and Safety Recommendation:

- Apply the usual industrial hygiene.
- This product will release acetic acid during curing, so the acetic acid vapour should not be inhaled in long time or in high concentrations. Keep good ventilation in work site. If uncured silicone sealant has contact with eyes or skin, the contact part shall be rinsed with water thoroughly, or it will cause skin irritation. Cured silicone rubber, however, can be handled without any risk to health.

Remarks:

- Because of the acid nature, certain metals (eg copper, lead) can be affected.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- A total absence of UV can cause a color change of the sealant.
- In an acid environment or in a dark room, a white sealant can slightly turn yellow. Under the influence of sunlight it will turn back to its initial colour.
- 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.
- Do not use in applications where continuous water immersion is possible.
- 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.
- Do not use on polycarbonate. Use Silirub PC instead.
- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 for this application.
- 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.

Environmental clauses

Leed regulation:

Silirub 301 AC 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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