

Silirub PC

Revision: 18/11/2015

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Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation	Ca. 10 to 20 min
Curing speed * (20°C / 65% R.H.)	Ca. 2 mm/24h
Hardness	20 ± 5 Shore A
Density	1,03 g/ml
Elastic recovery (ISO 7389)	> 80 %
Maximum allowed distortion	25 %
Temperature resistance	-40 °C → 180 °C
Max. tension (DIN 53504)	1,50 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,39 N/mm ²
Elongation at break (DIN 53504)	> 600 %
Application temperature	5 °C → 35 °C

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

Product description

Silirub PC is a neutral low modulus silicone sealant specially developed for sealing and waterproofing on polycarbonate.

Properties

- Does not cause stress cracking in non-prestressed acrylic glass (Plexiglas) and polycarbonate (Makrolon, Lexan).
- Very easy to apply
- Colourfast and UV resistant
- Very low emission, EC1 PLUS R certified
- Permanent elastic after curing
- Very good adhesion on many materials
- Low odour
- Slow skinning time

Applications

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

Packaging

Colour: transparent

Packaging: 310 ml cartridge

Shelf life

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

Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates

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

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. No primer needed for non-porous substrates.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary compatibility test.

Compatibility with glass

Silirub PC has not been tested in direct contact with sealants of insulating glass units or pvb films of laminated glass. We recommend to perform always a compatibility test for these applications.

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 beyond our control, no liability under this publication are 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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Joint dimensions

Glazing applications: top sealing = min. width 4 mm, depth at least 6 mm. Min. width for connection joints around windows: 10 mm. Expansion joints: joint width 5-10mm: joint depth 5mm. Joint width 10-30mm: depth=1/2 * width. Recommended joint configuration for connection joints and joints subjected to shear: depth = width (min 5 mm).

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with white spirit or Surface Cleaner immediately after use.

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 the packaging label for more information.

Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 for this application.
- A total absence of UV can cause a color change of the sealant.
- In an acid environment or in a dark room, white silicone 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.

Standards

- Tested and approved for compatibility with Plexiglas®-XT.

Environmental clauses*Leed regulation:*

Silirub PC 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. She 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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