

## Silirub PC

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### Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation	Ca. 10 to 20 min
Curing speed * (23°C/50% 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 %
Max. tension (ISO 37)**	1,50 N/mm <sup>2</sup>
Elasticity modulus 100% (ISO 37)**	0,39 N/mm <sup>2</sup>
Elongation at break (ISO 37)**	> 600 %
Temperature resistance**	-40 °C → 180 °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

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

### Packaging

*Colour:* transparent

*Packaging:* 310 ml cartridge

### 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+ certified
- Permanently elastic after curing
- Very good adhesion on many materials
- Low odour
- Slow skinning time
- Not paintable
- Not suitable for natural stone

### Shelf life

12 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:* rigid, clean, dry, free of dust and grease.

*Surface preparation:* Silirub PC 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. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical

### 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.

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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Data Sheet). Porous surfaces should be primed with Primer 150.

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

### Compatibility with glass

Tests carried out in our laboratories show that Silirub PC is compatible with most edge seals of insulating double glazing and conventional PVB films. 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.

### 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

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Silirub PC evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

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

*Cleaning:* Clean with Soudal Surface Cleaner or with Soudal Swipex, 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 label and material safety data sheet for more information.

Dangerous. Respect the precautions for use.

### 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.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- 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 Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- 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.

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### Standards and certificates

- 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. 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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