4 December 2024

SILIRUB PC

Technical Data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 7 min
Curing speed* (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	Ca. 23 ± 5 Shore A
Density	Ca. 1.03 g/mL
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion (ISO 11600)	± 25 %
Max. tension (ISO 37)**	Ca. 1.27 N/mm² (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.30 N/mm² (MPa)
Elongation at break (ISO 37)**	> 600 %
Temperature resistance**	-60 °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 (alkoxy) 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+ certified
- Permanently elastic after curing
- Very good adhesion on many materials
- Low odour
- Slow skinning time
- Not paintable
- Not suitable for natural stone

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: clear
Packaging: 300 mL cartridge

Shelf life

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

Substrates

Substrates: all usual building substrates
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: **Silirub PC** has 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 following a pretreatment procedure.

- Prepare non-porous surfaces with a Soudal **Surface Activator** or **Cleaner & Degreaser**.
- Prepare porous surfaces with Soudal **Primer 150**.

Not suitable for PE, PP, PTFE (eg. Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass.

We recommend a preliminary adhesion and compatibility test on every surface.

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Compatibility with glass

Tests performed 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.

Recommended joint dimensions

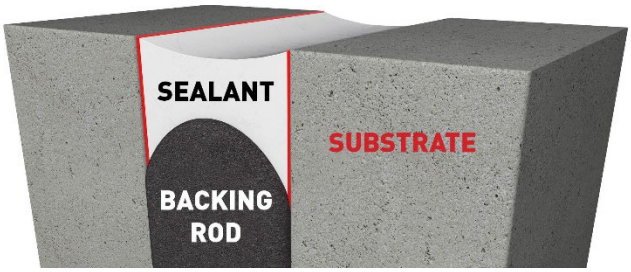
Glazing applications:

- Top sealing
  - min. width 4mm
  - depth at least 6 mm.
- Connection joints around windows
  - min. width 10mm
  - for connection joints and joints subjected to shear: depth = width (min 5 mm)

Expansion joints:

	JOINT	
	Width	***Depth***
Min	*5 mm*	*5 mm*
Max	*30 mm*	*15*

- Joint width 5 - 10mm: depth = 5mm.
- Joint width 10 - 30mm: depth = ½ * width.



Application method

Apply the product with a caulking gun. Smoothen the joint with a spatula with the help of a finishing solution. Apply Silirub PC evenly without air inclusions into the joint. Avoid soapy solutions to come between the joint edges and sealant (to prevent adhesion loss).
Application method: With manual- or pneumatic caulking gun.
Cleaning: Clean with Soudal Surface Cleaner or with Soudal **Swipex**, immediately after use.
Cured Silirub PC can only be removed mechanically.
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. Use only in well-ventilated areas.

Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal **Silirub MA** for this application.
- A total absence of UV can cause a colour change in the sealant.
- Discoloration due to chemicals, high temperatures, UV radiation may occur. A change in colour does not affect the technical properties of the product.
- In an acid environment or a dark room, a sealant can slightly turn yellow. Under the influence of sunlight, it can 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 applying the Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Not suitable for bonding aquariums. Use **Silirub AQ** instead.
- 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.