

SILIRUB CLEANROOM

Technical Data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 30 min
Curing speed* (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	Ca. 20 ± 5 Shore A
Density	Ca. 1.36 g/mL
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion (ISO 11600)	± 25 %
Max. tension (ISO 37)**	Ca. 2.10 N/mm ² (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.30 N/mm ² (MPa)
Elongation at break (ISO 37)**	> 1200 %
Temperature resistance**	-60 °C → 120 °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 Cleanroom is a high-quality, neutral (alkoxy), elastic one-component silicone-based joint sealant.

Silirub Cleanroom has been developed for sealing applications in critical surroundings (hospitals, laboratories, pharmaceutical industry) and in food-safe applications.

Properties

- Very easy to apply
- UV-resistant
- Contains biocide with fungicidal action
- Permanently elastic after curing
- Very good adhesion on many materials
- Meets GEV EMI CODE EC-1 PLUS: very low emission
- Low modulus
- Slow skinning time
- Tested according to FDA regulations code CFR 21 § 177.2600 (e) and (f)

Applications

- Sealing in cleanroom applications in hospitals, laboratories and other critical surroundings.
- Sealing of rooms in which food is processed and stored.

- Sealing of several panel types (e.g. HPL-panels).
- Joints in sanitary rooms (on synthetic baths and tubs) and kitchens.

Packaging

Colour: white

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.

Note: This product is heat sensitive. Storage and transport in warm conditions will reduce the shelf life to 6 months.

Substrates

Substrates: all usual building substrates

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

Surface preparation: **Silirub Cleanroom** 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.

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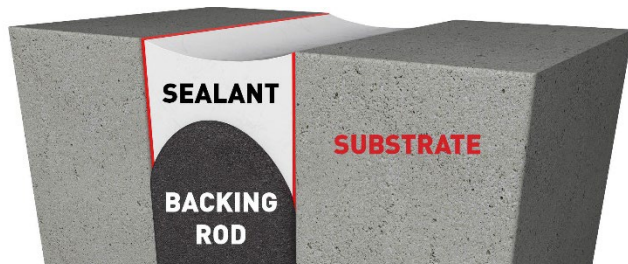
- Prepare non-porous surfaces with a Soudal **Surface Activator** or **Cleaner & Degreaser**.
- Prepare porous surfaces with Soudal **Primer 150**.

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.

Recommended joint dimensions

	JOINT	
	Width	Depth
Min	5 mm	5 mm
Max	30 mm	15
Recommendation for sealing: ½ width = depth		



Application method

Apply the product with a caulking gun. Smoothen the joint with a spatula with the help of a finishing solution. Apply **Silirub Cleanroom** 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.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remaining will stimulate the development of fungi.
- A total absence of UV can cause a colour change in the sealant.
- 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 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.
- 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.

Standards and certificates

- IKI (institute für Krankenhaushygiene, Giessen, Germany) approval for disinfection against micro-organisms.
- FDA code 21 §177.2600 (e): tested by IANESCO (France).
- IFT-ROSENHEIM® conform DIN EN ISO 11600 F 25 LM

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- Institut für Lufthygiene-Berlin: Insensitive to mold and bacteria

Environmental clauses

Leed regulation:

Silirub Cleanroom 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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