

Silirub Cleanroom

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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**	20 ± 5 Shore A
Density	1,36 g/ml
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion (ISO 11600)	25 %
Max. tension (ISO 37)**	2,10 N/mm ²
Elasticity modulus 100% (ISO 37)**	0,30 N/mm ²
Elongation at break (ISO 37)**	> 1200 %
Temperature resistance**	-50 °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, elastic one-component silicone based joint sealant. Silirub Cleanroom has been developed for sealing applications in critical surroundings (hospitals, laboratories, pharmaceutical industry) and in foodsafe applications.

Properties

- Very easy to apply
- UV-resistant
- Impervious to mould, contains biocide with fungicidal action
- Permanently elastic after curing
- Very good adhesion on many materials
- Meets GEV EMICODE 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 (like e.g. HPL-panels).
- Joints in sanitary rooms (on synthetic baths and tubs) and kitchens.

Packaging

Colour: white, other colors on request

Packaging: 310 ml cartridge, other packaging on request

Shelf life

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

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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(Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions

Min. width for joints: 5 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

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.

Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 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 remainings will stimulate the development of fungi.
- 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 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
- Institut für Lüthygiene-Berlin: Insensitive to mold and bacteria according to ISO / DIN EN 846.

Environmental clauses

Leed regulation:

Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content. Silirub Cleanroom conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168.

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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