Technical datasheet

Silirub Cleanroom

Product description

Silirub Cleanroom is a high quality, neutral, elastic one-component joint sealant based on silicones. Silirub Cleanroom is developed for sealing and bonding in cleanroom applications.

Properties

- Very good adhesion on many materials
- Easy to apply
- Good UV resistance
- Impervious to mould, contains biocide with fungicidal action
- Permanently elastic after curing
- Low modulus
- Slow skinning time

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.
- Sealing joints in sanitary rooms (bathroom) and kitchens.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 30 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.36 g/ml
Maximum allowed joint movement		± 25 %
Elasticity modulus	ISO 37	ca. 0.30 N/mm²
Elastic recovery	ISO 7389	> 80%
Elongation at break	ISO 37	> 1200 %
Maximum tension	ISO 37	ca. 2.10 N/mm²
Hardness		20 ± 5 Shore A
Application temperature		+5°C → +35°C
Temperature resistance		-60°C → +180°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  The surface must be rigid, clean, dry, free of dust and grease.

Soudal UK
Soudal House, Unit 1, Centurion Way, Centurion Park, B77 5PN Tamworth
+44 1827 261 092
www.soudal.com salesuk@soudal.com

Silirub Cleanroom

- Substrate preparation
  Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet).
- Substrate types
  Silirub Cleanroom has a good adhesion to following substrates: all usual building substrates, etc.. Silirub Cleanroom has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the product with a manual, pneumatic or accu caulking gun.
- Cleaning method
  Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Silirub Cleanroom is heat sensitive. Storage and transport in warm conditions will reduce the shelf life to 6 months.

Standards and certificates

- IKI (institute für Krankenhaushygiene, Giessen, Germany) approvals for desinfection and barrier against microorganisms (on Trespa Meteon panels).
- FDA regulation code CFR 21 paragr. 177.2600 (e) + (f) for repeated use in contact with aqueous foods.
- Conform ISO 11600 F 25LM
- Institut für lufthygiene-Berlin: Insensitive to mold and bacteria acoording to ISO / DIN EN 846.
- EC1 Plus label: very low emission

Joint dimensions

- Min. width for joints: 5 mm
  Max. width for joints: 30 mm
  Min. depth for joints: 5 mm
  Recommendation for sealing jobs: joint width = 2 x joint depth

Environmental clausules

- 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.

Remarks

- Do not use on natural stones like marble, granite,...(staining).

Soudal UK
Soudal House, Unit 1, Centurion Way, Centurion Park, B77 5PN Tamworth
+44 1827 261 092
www.soudal.com salesuk@soudal.com

Silirub Cleanroom

- 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 residues 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 finishing with a finishing- 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.

Soudal UK
Soudal House, Unit 1, Centurion Way, Centurion Park, B77 5PN Tamworth
+44 1827 261 092
www.soudal.com salesuk@soudal.com