SOUDAL

Technical datasheet

Silirub SSW

Description

Silirub SSW is a one-part, premium neutral cure, high-modulus silicone sealant for a wide variety of glazing applications in facades and fenestration. It cures into a durable and permanently flexible silicone rubber upon exposure to atmospheric moisture. Silirub SSW's exceptional tensile strength and aging resistance makes it ideal for architectural glazing and bonding applications.

Properties

- High tensile strength and flexibility to withstand wind load cycles
- Primer-less adhesion to most common substrates including glass, coated and anodized aluminum
- Odorless and non-corrosive neutral cure system
- Low VOC formulation, environmentally compliant
- Excellent weather resistance and long-term durability

Applications

- General Glazing and Structural Glazing systems
- Elastic bonding in construction and façade assemblies
- Skylights, metal structures, and industrial glazing applications
- Weather sealing in curtain walls and building facades
- Sealing of laminated, reflective, and insulated glass units
- Sealing of composite panels and high-pressure laminates

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Specific Gravity (g/ml)		ca. 1.4
Tack-free time (minutes)		ca. 67
Curing speed (mm/24h)		ca. 2 to 3
Hardness (Shore A, Points)	ISO868 / ASTM D2240	40 ± 5
Elongation at Break (%)	ISO 37 / ASTM D412	ca. 500
Maximum Tension (MPa)	ASTM D412 / ISO 37	ca. 2.3
Tear Strength, Die B (ppi)	ASTM D624	ca. 51.4
Peel Strength (ppi)	ASTM C794	ca. 40
Maximum allowed Distortion (%)	ISO 11600	± 25
Elasticity Modulus 100% (N/mm^2)	ASTM D412 / ISO 37	ca. 0.88
Temperature Resistance (°C)		-50 to +150
Application Temperature (°C)		+5 to +40

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

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Silirub SSW

Substrates

The surface to be sealed and bonded must be clean, dry, and free from dust, oil, grease, old sealant residues, or any contaminants thatmay affect adhesion.

Degrease surfaces using a solvent-soaked cloth, then wipe with a clean cloth. Change clothes frequently and use a suitable cleaner, such as IPA or 100% white spirits. Dust can be removed using oil-free compressed air.

For most substrates, Silirub SSW does not require a primer. However, for special substrates, a prior adhesion test is recommended. When using aluminum, profiles ensure that any releasing agents, processing aids, or protective coatings (like protective foil) are removed before application.

Joint Size

The joint design should avoid three-sided adhesion to ensure optimal sealant performance. The minimum recommended sealant bite configuration is 6 x 6 mm.
Min. width for joints: 6mm
Max. width for joints: 30mm
Min. depth for joints: 6mm

For specific joint configurations and detailed requirements, please consult Soudal's technical representative.

Application method

- Application method
  Apply Silirub SSW using a manual, battery-operated, or pneumatic caulking gun. Ensure even application of the sealant into the joint without air inclusions, following the recommended bite. Press substrates together before the sealant forms a skin. Remove excess sealant with a spatula and finishing solution.
- Cleaning method
  Clean tools and equipment immediately after using Soudal Surface Cleaner or Soudal Swipex. Cured Silirub SSW can only be removed mechanically.
- Repair
  Address any imperfections with Silirub SSW sealant, filling gap and smoothing for a flawless finish.

Health and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: White, Black
Packaging: 405g / 350g Cartridge, 810g Sausage
Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C.

Standards

Silirub SSW meets or exceeds the requirements of the following ASTM specifications for one-part sealants

- C1184, Type S, Use G and O (Finished aluminum)
- C920, Type S, Grade NS, Class 25, Use NT, A, G, O

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Remarks

- Silirub SSW should not be applied to substrates that bleed oils, plasticizers, or solvents such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes.
- Silirub SSW must not be used in totally confined spaces as it requires atmospheric moisture to cure.
- Silirub SSW is not paintable. Application of paint over the cured sealant may result in cracking or peeling of the paint film.
- Silirub SSW is not suitable for use on surfaces that are in contact with food. The sealant does not comply with FDA food-additive regulations.
- Do not use Silirub SSW in below-grade applications or in conditions of continuous water immersion.
- Silirub SSW is not intended for use as an interior penetration fire stop sealing system.
- Not suitable for horizontal floor joints subject to abrasion or heavy mechanical stress.
- Contact with bituminous substrates, tar, or plasticizer-releasing materials such as EPDM, neoprene, or butyl rubber must be avoided to prevent discoloration and adhesion failure.
- Silirub SSW is not compatible with copper or its alloys and should not be used on such substrates.

This technical data sheet supersedes all earlier versions. The information provided is based on our tests and practical experience and is supplied in good faith as general guidance only, without creating any liability. Since materials, substrates, application design, and processing conditions vary widely and are outside our control, we cannot accept responsibility for the results obtained from use of this information. The user must verify suitability for the intended application through their own testing, and preliminary trials are recommended in all cases. The manufacturer reserves the right to change product specifications without prior notice.

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