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4 December 2024

SILIRUB WS+

Technical Data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 9 min
Curing speed* (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	Ca. 32 ± 5 Shore A
Density	Ca. 1.38 g/mL
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion (ISO 11600)	± 50 %
Max. tension (ISO 37)**	Ca. 1.33 N/mm² (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.55 N/mm² (MPa)
Elongation at break (ISO 37)**	> 800 %
Temperature resistance**	-60 °C → 180 °C
Application temperature	$5~^{\circ}\text{C} o 35~^{\circ}\text{C}$

^{*} These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product Description

Silirub WS+ is a high-performance, low-odour, one-component joint and glazing sealant, based on neutral silicone.

Silirub WS+ has been developed for weather sealing of expansion joints in the façade industry. an elastic, single-component engineering sealant based on silicone which withstands very high temperatures.

Properties

- Neutral curing
- Compatible with PVB-film
- Compatible with sealants for double glazing based on polysulphides and silicones.
- Very easy to apply
- Permanently elastic after curing
- Very good adhesion on many materials
- Resistant against UV radiation, rain, frost, wind, ozone and extreme temperatures
- Excellent adhesion properties on glass, laminated glass, coated aluminium, galvanised steel, concrete and masonry
- Not paintable
- Not suitable for natural stone

Applications

- Weatherproof sealing of facade elements and in particular glass curtain walls.
- All usual building, connection, expansion and dilatation joints.
- Excellent for double-glazing system applications.
- Suitable for weatherproof sealing around structurally glazed window panels

Packaging

Colour: black, silver grey Packaging: 600 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 WS+ 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.



^{**} This information relates to fully cured product





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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

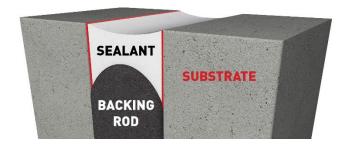
Glazing and window applications:

- Top sealing
 - min. width 4mm
 - depth at least 6 mm.
- Connection joints around windows
 - min. width 10mm

Weather seal & Expansion joints:

- Joint width 5 10mm: joint depth 5mm.
- Joint width 10 30mm: depth=1/2 * width.

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



Application method

Apply the product with a caulking gun. Smoothen the joint with a spatula with the help of a finishing solution. Apply **Silirub WS+** 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

- Not suitable as an adhesive for structural glazing applications.
- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA for this application.
- The use of Soudal Surface Activator is recommended in combination with powder-coated aluminium.
- A total absence of UV can cause a colour change in the sealant.
- Discoloration due to chemicals, high temperatures, and UV-radiation may occur. A change in colour does not affect the technical properties of the product.
- 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.
- Not suitable for bonding aquariums.
- Do not use on polycarbonate. Use Silirub PC instead.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

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 Contact with bitumen, tar or other plasticizerreleasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

Environmental clauses

- Meets ISO 11600 G 25 LM
- Meets ASTM C920 Type S, Grade NS, Class 50, Use T, NT, A and G

Environmental clauses

Leed regulation: Silirub WS+ 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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