

Silirub WS+

Revision: 11/01/2019

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Technical data

Base	Polysiloxane	
Sag	No sag in vertical displ. @49°C	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	Ca.12 minutes	@ 23°C & 50% R.H.
Curing time (*)	24 hrs, 3/8" diameter bead	@ 23°C & 50% R.H.
Hardness – Shore A	20 +/- 5 clear	ASTM C 661
Density	Ca. 1,30 g/ml	
Tensile Yield	190 psi	ASTM D 412
Elongation	> 700%	ASTM D 412
Movement capability	+/- 50%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No Cracking	ASTM C 793
Application temperature	5°C – 40°C	
Service temperature range	-60°C – 180°C	
VOC	< 5 % - < 65 g/L	

(*) 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 odor, one-component joint and glazing sealants, based on neutral silicone. Silirub WS+ has been developed for weather sealing of expansion joints in the façade industry.

Properties

- Compatible with PVB-film
- Compatible with sealants for double glazing based on polysulphides and silicones.
- Very easy to apply
- UV resistant
- Permanently elastic after curing
- Very good adhesion on many materials
- Corrosion free
- 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

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 and grey

Packaging: 300 ml cartridge, 600 ml sausage

Shelf life

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

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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Substrates

Substrates: all usual building substrates

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

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. No primer needed for non-porous substrates.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate. Due to the wide variety materials used in façade technology a preliminary compatibility test is necessary.

Joint dimensions

Glazing and window applications: top sealing = minimum width 4 mm, depth at least 6 mm. Minimum joint width for connection joints around windows: 10 mm. Weatherseal and other applications: joint width 5 - 10 mm: joint depth 5 mm. Joint width 10 - 30 mm: depth = 1/2*width.

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 the packaging label and Material Safety Data Sheet for more information.

Remarks

- Not suitable as adhesive for structural glazing applications.
- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 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 color change of the sealant.
- In an acid environment or in a dark room, white silicone 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 product in full sunlight as it will dry very fast.
- Do not use in applications where continuous water immersion is possible.
- 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.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discolouration and loss of adhesion.

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- Not suitable for bonding aquariums

Standards and certificates

- Meets ISO 11600 G 25 LM
- Meets ASTM C-920 Type S, Grade NS Class 50, Use 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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