

Silirub 588

Description

Silirub 588 is a high-performance neutral-cure silicone sealant engineered for demanding glazing, façade and fenestration applications. Combining durable weather resistance with non-corrosive curing, it delivers dependable long-term sealing performance across a wide range of environmental conditions.

Properties

- Easy to use – no mixing required
- Neutral cure, does not corrode galvanized/zinc coated steel
- Ideal for perimeter joint sealing in doors, windows and frames, etc.
- Façade and curtain wall weather sealing applications
- Accommodates joint movement of up to $\pm 50\%$, helping maintain a durable seal over time
- Good weatherability – Excellent resistance to UV (sunlight), rain, or extreme temperatures
- Primer-less adhesion on most substrates



Application

- Weatherseal in façade and curtain wall applications
- Sealing dynamically moving joints such as expansion and control joints
- Perimeter joint sealing (windows, door panels, and frames etc.)
- Concrete panel joints
- Excellent for weatherseal application in double glazing system
- Excellent adhesion properties on glass, laminated glass, coated aluminum, galvanized steel, concrete, masonry & EPDM

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Specific Gravity (g/ml)		Ca. 1.27 $\pm$ 0.02
Skin formation (minutes)		Ca. 10 to 12
Curing speed (mm/24h)		Ca. 2 to 2.5
Hardness (Shore A, Points)	ISO 868 / ASTM D2240	Ca. 35
Elongation at Break (%)	ISO 37 / ASTM D412	≤ 750
Tensile Strength (N/mm ²)	ASTM D412 / ISO 37	Ca. 1.3 $\pm$ 0.2
Maximum allowed Distortion (%)	ASTM C719	± 50
Elasticity Modulus 100% (N/mm ²)	ASTM D412 / ISO 37	≤ 0.35
Elastic Recovery (%)	ISO 7389	> 80
Temperature Resistance (°C)		-40 to +180
Application Temperature (°C)		+5 to +45

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



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Substrates

■ Substrate condition

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

■ Substrate preparation

Silirub 588 has a 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 pre-treatment procedure. Porous surfaces can be prepared with a Soudal activator or cleaner.

■ Substrate types

Silirub 588 has a good adhesion to all usual building substrates.

Silirub 588 is not suitable for PE, PP, PTFE (Teflon®), PVC, and bituminous substrates.

Due to the wide variety of materials used in façade technology a preliminary compatibility test is necessary.

Joint Size

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.

Weather seal and other applications:

Joint width 5 - 10mm: joint depth = joint width

Joint width 10 to 30 mm: width = 2 x depth

Application method

■ Application method

Apply the product with a manual, pneumatic or a battery-operated caulking gun. Apply masking tapes to areas adjacent to joints to ensure neat sealant lines.

■ Cleaning method

Swiftly clean with white spirit after usage to prevent residue accumulation & maintain equipment efficacy. Cured product must be removed mechanically.

■ Finishing method

Utilize soapy water to wipe away excess caulking or sealant before it dries, ensuring a polished appearance.

■ Repair method

Address any imperfections with Silirub 588 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: Black

Packaging: 405g (280 ml) Cartridge

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.



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Remarks

- Do not use as a structural glazing adhesive.
- The use of Soudal Surface Activator is recommended in combination with powder coated aluminum.
- A total absence of UV can cause a color change of the sealant.
- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color 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 only dipping 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.
- Do not use on polycarbonate.
- Do not use on natural stones like marble, granite etc. (staining) use Soudalseal 212 CS or Silirub MA.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Not suitable for bonding aquariums.
- Contact with bitumen, tar or other plasticizer releasing materials such as neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.
- With the expanding range of coatings used in the fenestration industry, sealant compatibility with specific coating systems must be verified; therefore, a preliminary adhesion test is recommended prior to application.

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.