SOUDAL

Technical datasheet

Silirub NO5+

Product description

Silirub NO5+ is a high quality, elastic one-component joint sealant based on silicone.

Properties

- Very easy to apply
- Excellent UV-resistance
- Neutral curing
- Excellent moisture resistance
- Suitable for sanitary applications
- Impervious to mould, contains biocide with fungicidal action
- Low modulus
- Very good adhesion on many materials
- Very good resistance to ageing
- Permanently elastic after curing
- Not paintable
- Not suitable for natural stone

Applications

- All usual building joints with high movement.
- Glazing and joint works.
- Expansion joints between many different construction materials.
- Sealing between uPVC, treated wooden and metal profiles and glass.
- Sealing joints in sanitary rooms (bathroom) and kitchens.
- Sealing in cold store rooms and container constructions.
- Permanently elastic sealing of connection and expansion joints in masonry, prefab elements, concrete, sandwich panels, roof constructions, etc.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		Ca. 6 min
Curing speed		Ca. 2 mm/24h
Density		Ca. 1.27 g/ml
Maximum allowed distortion	ASTM C719	±25%
Elasticity modulus	ASTM D412	Ca. 0.53 N/mm²
Elastic recovery	ASTM C736	> 70%
Elongation at break	ASTM D412	Ca. 600%
Maximum tension	ASTM D412	Ca. 1.54 N/mm²
Hardness	ASTM C661	Ca. 31 ± 5 Shore A
Application temperature		+5°C -> +40°C (41°F -> 104°F)

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Temperature resistance		-60°C → +180°C (-76°F → +356°F)
Artificial weathering	ASTM C793	No cracking
Staining and Color Change	ASTM C510	Passes (mortar)

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.
- Substrate preparation
  Silirub NO5+ 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 to follow a pre-treatment procedure. Soudal Surface Cleaner can be used to clean and degrease a non-porous substrate. 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). All substrates should be tested for suitability with regard to adhesion and compatibility.
- Substrate types
  Silirub NO5+ has a good adhesion to following substrates: all common materials, aluminium, concrete, uPVC. Silirub NO5+ has no good adhesion or is not suitable for bituminous substrates, PE, PP, PTFE (Teflon®).

Application method

- Application method
  Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply the product evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that finishing solution comes between the joint edges and sealant (to prevent adhesion loss). It is important to ventilate well the places where the product is applied. Continue to ventilate throughout the curing time.
- Application tools
  With a manual, pneumatic or battery caulking gun.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Silirub NO5+ can only be removed mechanically.
- Finishing method
  With Soudal Finishing Solution before skinning.
- Repair method
  Repair with Silirub NO5+.

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., Once opened the product has only a limited shelf life.

Standards and certificates

- Conform ASTM C920 Type S, Grade NS, Class 25, Use T, NT, A and G.

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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

Remarks

- Do not use on natural stones like marble, granite,...(staining).
- A total absence of UV can cause a color change of the sealant.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- We strongly recommend not to apply Soudal finishing solution in full sunlight as it will dry very fast in these circumstances. On certain surfaces Soudal finishing solution can cause staining. A preliminary test is always recommended.
- When finished with Soudal finishing solution, make sure that the adhesion 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 the finishing solution.
- Do not use as structural glazing adhesive.
- Do not use on polycarbonate
- Not suitable for bonding aquariums.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- When applying, make sure not to spill any sealant on the surface of materials next to the joint. Using tape on the surface next to the joint can prevent this.
- 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 discoloration and loss of adhesion.
- Do not use in applications where continuous water immersion is possible.
- Once opened, the product has a limited shelf life.

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