

Silirub NEO5

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Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 7 min
Curing speed * (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	Ca. 24 ± 5 Shore A
Density	Ca. 1,01 g/ml (transp) Ca. 1,21 g/ml (colors)
Elastic recovery (ISO 7389)**	> 80 %
Maximum allowed distortion	25 %
Max. tension (ISO 37)**	Ca. 1,70 N/mm ²
Elasticity modulus 100% (ISO 37)**	Ca. 0,39 N/mm ²
Elongation at break (ISO 37)**	> 700 %
Temperature resistance**	-60 °C → 150 °C
Application temperature	5 °C → 35 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Silirub NEO5 is a neutral, high quality façade and glazing sealant, compliant with ISO 11600 F&G 25LM.

Packaging

Colour: white

Packaging: 300 ml cartridge

Properties

- Very easy to apply
- Permanently elastic after curing
- Very good adhesion on many materials
- UV-resistant
- Neutral curing
- Low modulus
- Very good moisture resistance
- Very good resistance to ageing
- Not suitable for natural stone
- Not paintable
- MEKO free

Shelf life

15 months unopened and stored in dry and cool conditions (Between 5 and 25 °C)

Chemical resistance

Resistant to intermittent exposure to salt water, detergents, oils, weak acids and bases (preliminary test required). Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Applications

- All usual building joints with high movement.
- Glazing and joint works.
- Expansion joints between many different construction materials.
- Sealing between PVC, treated wooden and metal profiles and glass.

Substrates

Substrates: all usual building substrates

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

Surface preparation: Silirub NEO5 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. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). Porous surfaces should be

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primed with Primer 150.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Joint dimensions

Min. width for joints: 5 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Silirub NEO5 evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

Application method: With a manual, pneumatic or accu caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use

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.

Dangerous. Respect the precautions for use.

Remarks

- Do not use on natural stones like marble, granite,...(staining). Use Soudal Silirub MA or Silirub+ S8800 for this application.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided.
- The implementation of insulating glass and carpentry work must comply with the DTU39 and the recommendations made by the organizations SNJF and CEKAL.

- Discoloration due to chemicals, high temperatures, UV-radiation may occur. A change in color does not affect the technical properties of the product.
- A total absence of UV can cause a color change of the sealant.
- In an acid environment or in a dark room, a white sealant 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 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.
- 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.

Standards and certificates

- Joint sealant SNJF label Facade - Glazing 25E.



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Environmental clauses

Leed regulation:

Silirub NEO5 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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