

Silirub IS

Description

Silirub IS is a high-performance neutral cure silicone sealant with outstanding sealing properties for most of the industrial critical applications. Silirub IS – Industrial Seal is FDA (food grade) approved by IANESCO (France).

Properties

- Very easy to apply
- Permanently elastic after curing
- Impervious to mold, contains biocide with fungicidal action
- Very good adhesion on multiple substrates
- Very good moisture resistance
- Very good resistance to ageing
- FDA approved (food grade)
- Excellent UV resistance



Application

- Sealing joints in sanitary rooms (bathroom) and kitchens.
- All usual building joints with high movement.
- Expansion joints between many different construction materials.
- Sealing in cold storerooms and container construction.
- Sealing in air conditioning systems.
- Sealing in cleanroom applications in hospitals, laboratories and other critical surroundings.
- Sealing rooms in which food is processed and stored.

Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Specific Gravity (g/ml)		ca. 1.00
Skin formation (minutes)		ca. 10
Curing speed (mm/24h)		ca. 2
Hardness (Shore A, Points)	ISO 868 / ASTM D2240	25 ± 5
Elongation at Break (%)	ISO 37 / ASTM D412	≤500
Tensile Strength (N/mm ²)		≤1.46
Maximum allowed Distortion (%)	ISO 11600	± 20
Elasticity Modulus 100% (N/mm ²)	ASTM D412 / ISO 37	0.5
Elastic Recovery (%)		>70
Temperature Resistance (°C)		-60 to +150
Application Temperature (°C)		+5 to +35

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

- Minimum Width: 5 mm
- Maximum Width: 30 mm
- Minimum Depth: 5 mm
- Recommendation: 2 x Depth = Width

Application method

- **Application method**
Apply the product with a manual, pneumatic or a battery-operated caulking gun.
- **Cleaning method**
Swiftly clean with white spirit or Soudal Surface Cleaner after usage (before curing) 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 IS 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.
Keep the area well-ventilated during use and curing of the product. Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Brilliant White, Translucent
Packaging: 278g 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.

Certifications

FDA CODE 21 §177.2600 (e) and (f) tests by IANESCO (France), rapport 21/05999, dated 29 March 2021

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Remarks

- Do not use on natural stones like marble, granite, etc. due to staining. We recommend Soudaseal 212 CS for those applications.
- Direct contact with the secondary sealing of insulating glass units (insulation) and the PVB-film of safety glass must be avoided
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap residues will stimulate the development of fungi.
- A total absence of UV can cause a color change of the sealant.
- 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.
- 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 color.
- We strongly recommend not to apply the Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- We recommend a preliminary adhesion test of for PVC related applications.

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.