



Silirub AQ

Product description

Silirub AQ is a high quality, elastic one-component adhesive based on silicone. Silirub AQ is suitable for the construction of aquaria and terraria.

Properties

- Easy to apply
- Permanently elastic after curing
- Good adhesion on glass and aluminium.
- Completely neutral after curing
- Good UV resistance
- Silirub AQ does not contain any toxins for fish or other organisms (eg fungicide).
- Seawater resistant
- Algae resistant

Applications

- Construction of full glass aquaria and terraria.
- Bonding of glass constructions.
- Repairing of full glass aquariums.



Technical data

Base		Polysiloxane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 7 minutes
Curing speed		ca. 2 mm/24h
Density		ca. 1.03 g/ml
Maximum allowed joint movement		± 25 %
Elasticity modulus	ISO 37	ca. 0.48 N/mm ²
Elastic recovery	ISO 7389	> 90 %
Elongation at break	ISO 37	ca. 700 %
Maximum tension	ISO 37	ca. 2.00 N/mm ²
Hardness		25 ± 5 Shore A
Application temperature		+5°C → +35°C
Temperature resistance		-60°C → +180°C

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.



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- Substrate preparation
The surfaces should be degreased before bonding them together.
- Substrate types
Silirub AQ has a good adhesion to following substrates: glass. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
Apply the product with a manual, pneumatic or accu caulking gun.
- Cleaning method
Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- Finishing method
With Finishing Solution before skinning.
- Repair method
Repair with the same material.

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

Standards and certificates

- Complies with DIN 32622 point 4.4.2.1
- EC1 Plus label: very low emission

Environmental clauses

- Leed regulation: Silirub AQ 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.

Remarks

- Even though this silicone is an acetic silicone, Silirub AQ is not poisonous after curing so that all types of aquaria can be constructed which can be populated by all sorts of fish.
- Only suitable for aquaria built according to DIN32622: max. dimensions 200 x 60 x 60 cm, use the correct thickness of glass.
- Add sufficient reinforcements to avoid bending of the glass.
- Minimum bond thickness should be 1 mm.
- Never fill the aquarium until full cure.
- Small quantities of acetic acid are released during the curing of the product. Silirub AQ must be fully cured before the first filling of the aquarium or terrarium. The cure time depends on the temperature, humidity and layer thickness. Depending on the circumstances, the curing may take several days. For faster curing, we recommend increasing the humidity in the aquarium/terrarium. For example, place a container filled with warm water in the aquarium or terrarium. Cleaning the basin with pure water also removes the last remains of the acetic acid. The adhesive layer must be protected against shocks until full cure of the product, otherwise cracks / bubbles will be present in the adhesive or the adhesive may loose adhesion from the glass. The thickness of the adhesive layer must be at least 1 mm after curing.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

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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. It is general in nature and does not constitute any liability. 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. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.