Silirub AQ

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**	25 ± 5 Shore A
Density	1,03 g/ml
Elastic recovery (ISO 7389)**	> 90 %
Maximum allowed distortion	25 %
Max. tension (ISO 37)**	2,00 N/mm²
Elasticity modulus 100% (ISO 37)**	0,48 N/mm²
Elongation at break (ISO 37)**	800 %
Temperature resistance**	-60 °C → 180 °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 AQ is a high quality, elastic, 1-component sealant based on silicones. Silirub AQ is suitable for the construction of aquaria and terraria.

Properties

- Very easy to apply
- Very low emmission, EC1 PLUS R certified
- Permanently elastic after curing
- Very good adhesion on glass and aluminium
- Completely neutral after curing
- UV-resistant
- After complete curing and completion of the chemical reaction process
- this product does not contain any toxins for fish or other organisms (eg fungicide).
- Seawater resistant and algae resistant
- Resists acids, alkalis and many chemicals.

Applications

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

Packaging

Colour: transparent, black
Packaging: 300 ml cartridge, 400 ml sausage, other packaging on request

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Substrates

Substrates: glass
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: No pretreatment required. We recommend a preliminary adhesion test on any substrate.

Application method

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

Remark: This technical data sheet replaces al 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. 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. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

Silirub AQ

Health- and Safety Recommendations
Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks
- Even though this silicone is an acetic silicone, the product 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.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Small quantities of acetic acid are released during the curing of the product. The product must be fully cured before the first filling of the aquarium or terrarium. This depends on the temperature, humidity and layer thickness. Depending on the circumstances, the curing may take several days. For a faster hardening we recommend putting a pot of water in the basin. 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.

Standards and certificates
- Complies with DIN 32622 point 4.4.2.1

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.

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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