



## Technical Data Sheet

### Zwaluw® Aqua-Silicone

Silicone for fresh and salt water aquaria



#### Product Description

Zwaluw Aqua-Silicone is an acetoxysilicone sealant which cures under influence of humidity to form a durable elastic rubber.

#### Benefits

- Sealant and adhesive
- Non toxic for fish when fully cured
- For fresh and sea water aquaria

#### Applications

Zwaluw Aqua-Silicone has been specially developed for bonding and sealing full glass constructions as aquaria, terraria and showcases. The product has an excellent adhesion to glass. For selecting the glass thickness of the aquarium we refer to DIN 32622.

#### Directions of Use

As a joint thickness between the sides and between the sides and the bottom, 1 to 2 mm is advised. Finish internal angles as a triangular joint of 3 to 5 mm depending on the water level. The sealant must be fully cured, curing time up to 1 week, before it can be transported or filled with water. After curing of the sealant, rinse the aquarium several times with water, before put into use. For further question please contact our technical service.

#### Additional information

100% Modulus	N/mm <sup>2</sup>	0,50 MPa
Application Rate	@ Ø3 mm/6,3 bar	130 g/min
Application Temperature		+5°C till +40°C
Base		Acetoxysilicone
Curing Time	@23°C/50% RH	2mm/24 hours
Density		1,03 g/ml
Elongation at Break		600%
Flow	ISO 7390	< 2mm
Frost Resistance during transportation		till -15°C
Joint Movement		25%
Shore-A hardness	DIN 53505	22 Shore A
Skin Formation	@23°C/50% RH	5-6 min
Temperature Resistance		-40°C till +180°C
Tensile Strength	N/mm <sup>2</sup>	1,80 MPa

#### Limitations

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable for aquaria bigger than 1000 litres and/or higher than 60 cm
- Glass to glass but joints might contain small air bubbles that stay visible after curing

#### Surface Preparations and Finishing

Application temperature: +5°C to +40°C (applies to environment and substrates). All substrates must be solid, clean, dry, and free from grease and dust. Clean substrates with Zwaluw Cleaner. Zwaluw Aqua-Silicone adheres perfectly without the use of a primer to most non porous substrates. Porous substrates to be pre-treated with Zwaluw Primer B1. Always test adhesion prior to application. Use Zwaluw Finisher to smooth the joint.

#### Paintability

Zwaluw Aqua-Silicone is not paintable.





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#### Cleaning

Uncured material and tools can be cleaned by using Zwaluw Cleaner.  
Cured material can only be removed mechanically. Hands can be cleaned with Zwaluw Wipes.

#### Colour(s)

- Translucent

#### Packaging

- Cartridge 310 ml
- Tube 80 ml

#### Shelf Life

In unopened original packaging between +5°C and +25°C, shelf life till 24 months after production date, stored in a dry place.

#### Health & Safety

Product Health and Safety Data Sheet must be read and understood before use. These are available on request and via the Den Braven websites.

#### Warranty & Guarantee

Den Braven warrants that its product complies, within its shelf life, to its specification.

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