



# Den Braven

## Technical Data Sheet

### Zwaluw Aqua-Silicone

Silicone for fresh and salt water aquaria



### Product Description

Zwaluw Aqua-Silicone is an acetoxysilicone sealant which cures by reacting to moisture 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 was specifically developed for bonding and sealing full glass constructions as aquaria, terraria and showcases. The product has excellent adhesion to glass. For selecting the glass thickness of the aquarium we refer to DIN 32622. This product is not harmful for aquatic life after curing!

### Directions Of Use

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, rinse the aquarium several times with water before use. For further questions please contact our technical service.

### Additional information

100 % modulus	DIN 53504 S2	0,50 N/mm <sup>2</sup>
Application rate	@ Ø3 mm/6,3 bar	130 g/min
Application temperature		+5°C to +40°C
Base		Acetoxysilicone
Curing time	@ +23°C/50% RH	2 mm/24 hours
Density	ISO 1183-1	1,03 g/ml
Elongation at break	DIN 53504 S2	600%
Flow	ISO 7390	< 2 mm
Frost resistance during transportation		Up to -15°C
Joint movement		25%
Shore hardness	DIN 53505	22
Skin formation	DBTM 16	5-6 minutes @ +23°C/50% RH
Temperature resistance		-40°C to +180°C
Tensile strength	DIN 53504 S2	1,80 N/mm <sup>2</sup>

*These are typical values*

### Limitations

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable for aquaria larger than 1000 litres and/or higher than 60cm
- When gluing glass to glass miniscule air bubbles may still be visible after curing
- Please make sure that the QA13 is fully cured (min 2 weeks) before the aquatic life starts in the intended aquatic environment.

### 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



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Aqua-Silicone adheres perfectly without the use of 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.

#### 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)

- Black
- Transparent

#### Packaging

- Cartridge

*For product specifications, please refer to the Product Detail Page*

#### Shelf Life

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

#### Certifications

	A+ French VOC Regulation
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#### Health & Safety

Product 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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