

Technical Data Sheet

Den Braven 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 is specially developed for bonding and sealing full glass constructions as aquaria and terraria. The product has an excellent adhesion to glass. For selecting the glass-thickness of the sides and the bottom of the aquaria we refer to DIN 32622.

Additional information

100% Modulus	N/mm ²	0,50 MPa
Application Rate		130 g/min
Application Temperature		+5°C till +40°C
Base		Acetoxysilicone
Curing Time	@23°C/50% RH	2mm/day
Density		1,03 g/ml
Elongation at Break		600%
Flow	ISO 7390	< 2 mm
Frost Resistance during transportation		Till -15°C
Joint Movement		25%
Shore-A hardness	DIN 53505	22 Shore A
Skin Formation	@23°C/55% RH	6 min
Temperature Resistance		-50°C till +180°C
Tensile Strength	N/mm ²	1,82 MPa

Limitations

- Not suitable for PE, PP, PC, PMMA and PTFE
- Not suitable for aquaria bigger then 1000 litres and-or higher then 60 cm.
- Glass to glass but joints might contain small air bubbles that stay visible after curing.

Joint Designs

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.

Surface Preparations and Finishing

Application temperature: +5°C to +40°C (environment and substrate). Surfaces must be dry, clean and solid. Clean surfaces with Zwaluw Cleaner. Zwaluw Aqua-Silicone adheres perfectly without the use of a



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primer to most non porous substrates. Strong porous surfaces 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. It is recommended to cover the edges of the joint with a masking tape in order to prevent that the surfaces which still needs to be painted will be infected by silicone.

Cleaning

Uncured material and tools can be cleaned by using Zwaluw Cleaner. Cured material can only be mechanically removed. 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, shelflife till 12 months after productiondate, 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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