

PRODUCT DATA SHEET

EVERBUILD® AquaMate® Sealant

PREMIUM GRADE AQUARIUM SILICONE

PRODUCT DESCRIPTION

EVERBUILD® AquaMate® Sealant is a high modulus, reactive curing silicone sealant specifically formulated for aquarium manufacture. It remains permanently flexible, forming a watertight seal. Meets ISO11600 G25HM performance

USES

- All sealing applications in aquaria.
- Sealing of pond liners and all supply/drainage piping.

CHARACTERISTICS / ADVANTAGES

- Free from fungicide and solvent - will not harm fish.
- Fast cure - gives quick early strengths.
- Extremely low dirt pick up.
- Waterproof seal - will withstand continuous water immersion.

Shrinkage	<5%
Application Temperature	+5°C to + 40°C
Modulus At 100%	0.55 MPa
Cleaning	Uncured sealant: white spirit, Cured sealant: EVERFLEX SILICONE EATER
Coverage	~7 linear metres @ 9 x 9mm fillet joint
Elongation At Break	>200%

PRODUCT INFORMATION

Packaging	295ml Cartridge
Colour	Translucent
Shelf Life	24 months from date of manufacture.
Storage Conditions	Store in cool dry conditions between + 5°C and 25°C.
Density	1.03 g/cm ³

TECHNICAL INFORMATION

Shore A Hardness	22
Tensile Strength	1.0 Mpa (10kg/m ²)
Elongation at Break	>200%
Movement Capability	+ or -25%
Service Temperature	Resistance : -40°C to + 150°C

APPLICATION INFORMATION

Curing Rate	3mm per 24 hours
Skin Time	15 mins @ 23°C and 50%RH

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application. All glass must be cleaned prior to use.

APPLICATION METHOD / TOOLS

Surfaces must be clean, dry and free from dust, grease and other contaminants. Priming is generally not required.

The joint must consist of two parts:

Sealing joint: the depth of which must be identical to the width of glass used.

Structural seal: a triangular shaped joint applied to the interior edges of the glass. The required dimensions of this joint can be calculated from the following equation:

$$E = 6 \times H^2 \times L / [100 \times T \times 2 (H + L)]$$

where

E is required thickness of structural seal in mm

H = height of aquarium in cm

L = Length of aquarium in cm

T = Tensile strength of sealant (kg/cm²) which for EVERBUILD® AquaMate® Sealant is 10.

Apply the following method:

- Put base on flat surface.
- Apply bead of approximately 3mm diameter on the 2 large panels, placing it about 3mm from the edge.
- Place back panel. Press down to reduce joint thickness to 1-2mm.
- Hold in position (eg. rest against back wall).
- Apply beads of sealant to edge of small panel and corresponding large panel.
- Push edges of large and small panel together.
- Hold in place (temp) with adhesive tape.
- Repeat for second small panel.
- Fit front panel on last.
- Apply structural joint of required thickness to all internal faces and finish with dowel to push home sealant.
- Allow to cure for 24 hours before moving.
- Allow to fully cure and rinse out thoroughly before use.

NOTE: THE METHOD DETAILED ABOVE IS SUITABLE FOR AQUARIA UP TO 400LTRS (85 GALLON) IN CAPACITY.

THE INFORMATION GIVEN IN THIS DOCUMENT IS FOR GUIDANCE ONLY AND DOES NOT CONSTITUTE A GUARANTEE ON OUR PART. ALWAYS MAKE UP AND TEST ASSEMBLIES FOR EACH SPECIFIC CASE.

LIMITATIONS

- On highly porous surfaces priming is advised.
- Not for use on substrates that may bleed oils, solvent

or plasticisers.

- As pond liner materials vary in quality, always test a small area first for adhesion.
- Always wash out ponds and aquaria after use to remove residual acetic acid. Test pH before use.
- Allow sealant to fully cure before moving/filling with water.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Consult MSDS for full list of hazards.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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