

PRODUCT DATA SHEET

SikaSeal® Aquarium

Premium grade aquarium silicone

PRODUCT DESCRIPTION

SikaSeal® Aquarium Sealant is a high strength, reactive curing silicone sealant specifically formulated for aquarium manufacture. It remains permanently flexible, forming a watertight seal.

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.

APPROVALS / STANDARDS

ISO 11600 G20LM
DIN 32622 (aquarium construction)

PRODUCT INFORMATION

Packaging	295 ml 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	ca. 22
Tensile Strength	1.0 MPa (ISO 8339)
Tensile Modulus of Elasticity	<0.4 N/mm ² @ 60 % elongation
Elongation	>200 %
Movement Capability	20 % (ISO 9047)
Service Temperature	-40 °C to +150 °C

APPLICATION INFORMATION

Consumption	7 linear meters as a 9 mm x 9 mm fillet joint
Curing Rate	3 mm per 24 hours
Skin Time / Laying Time	15 mins @ 23 °C and 50 % RH

VALUE BASE

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

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.
- Not advised for use on cement based substrates due to release of acetic acid.
- Allow sealant to fully cure before moving/filling with water.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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

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 SikaSeal® Aquarium is 10.

APPLICATION METHOD / TOOLS

- Put base on flat surface.
- Apply bead of approximately 3 mm diameter on the 2 large panels, placing it about 3 mm from the edge.
- Place back panel. Press down to reduce joint thickness to 1-2 mm.
- 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 (temporarily) 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 400 L (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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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Product Data Sheet

SikaSeal® Aquarium
October 2026, Version 01.01
020513070000264374

SikaSealAquarium-en-GB-(10-2026)-1-1.pdf