AQUARIUM SILICONE SEALANT

TECHNICAL DATA SHEET

AQ800

SILICONE SEALANT · NON-TOXIC

LASICA AQ800 Aquarium Silicone Sealant

LASICA AQ800 is a non-toxic, solvent-free silicone sealant for use in aquarium construction and glazing applications. It is a high-quality acetic curing system based silicone sealant featuring excellent adhesion to glass and many other non-porous surfaces.

PACKAGING	SHELF LIFE	CURING SYSTEM	COMPONENTS
310 ml	18 months	Acetic	One-component

SPECIAL FEATURES

- 100% solventless silicone
- Non-toxic to fish
- Resistant to water, UV and many chemicals
- One component, cures with atmospheric moisture
- Keeps its elasticity at low and high temperatures
- Rapid curing
- Very good bond and physical strength

APPLICATION

- Construction and repair of aquariums and many glass structures
- Suitable on glass / aluminium structures
- Glazing on aluminium frames and shop displays
- Sealing of windows and doors

HOW TO USE

A primer may be required for some substrates; consult your supplier for more information. Cut the nozzle to the desired width, cut the tip off the cartridge and attach the nozzle. Apply an even bead ensuring good contact between the sealant and the substrate. Immediately tool the bead to ensure a good finish and remove masking tape. This must be done before the product skins.

1. Ensure that surfaces to be sealed are clean, dry and grease free.
2. The application temperature must be between +5 °C and +40 °C.
3. After application, tool the sealant with light pressure within 5 minutes to spread the material against the joint surfaces and obtain a professional finish.
4. Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed only mechanically.
5. 6 mm joint depth is recommended for joint widths between 6 mm and 12 mm.
6. After the construction of the aquarium is complete, wait a minimum of 21 days before usage.

LIMITATIONS

NOT suitable for the following applications:

- Totally confined spaces where there is no atmospheric humidity, which is needed for curing
- Under-water applications
- Below-grade applications
- Concrete, cement, masonry or stone
- Soft metals such as brass, copper and bronze, as discolouration will occur
- Trafficable surfaces
- Polycarbonate materials, as crazing may occur
- Do not clean or treat the silicone with materials, cleaning agents or solvents that may affect or discolour the silicone, particularly while curing.

PRODUCT DATA

TYPICAL GENERAL CHARACTERISTICS	INSPECTION METHOD	VALUE
PRODUCT DATA (UNCURED)		
Density at 23 °C	ISO 1183-1 A	**1.02 g/cm³**
Consistency	ISO 7390, profile U 20	**Non-sag**
Extrusion rate — volume flow at 23 °C	—	**280 ml/min**
Skin forming time at 23 °C / 50% r.h.	—	**5 min**
Curing time at 23 °C / 50% r.h.	—	**3.5 mm/day**
PRODUCT DATA (CURED) — AFTER 4 WEEKS' STORAGE AT 23 °C / 50% R.H.		
Tensile strength	ISO 8339	**0.80 N/mm²**
Elongation at break	ISO 8339	**230 %**
Modulus at 100% elongation	ISO 8339	**0.55 N/mm²**
Hardness Shore A	ISO 868	**30**
Tear strength	ISO 34, method C	**6.1 N/mm**
Combined tension and shear resistance	DIN 32622	**1.6 N/mm²**
Movement capability	ISO 11600	**25 %**

PACKAGING

- Cartridge: **310 ml**

TRANSPORT & STORAGE

- Transport: keep the sealed product away from moisture, sun and high temperature; avoid collisions.
- Storage: keep sealed in a cool, dry place. Temperature 5–25 °C, humidity ≤ 50% RH.
- Shelf life: **18 months** (cartridge, sealed product).

SAFETY NOTES

During vulcanization, acetic acid is released. These vapours should not be inhaled for long periods or in high concentration; good ventilation of the workplace is therefore necessary. Should uncured silicone rubber come into contact with eyes or mucous membranes, rinse the affected area thoroughly with water, as irritation will otherwise be caused.

STORAGE

The 'best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean the product is no longer usable; in this case, the properties required for the intended use must be checked for quality assurance reasons.

The information in this technical data sheet is based on our experience and testing and is given in good faith for guidance. As conditions of use are beyond our control, the user is responsible for verifying the product's suitability for the intended application through preliminary testing. LASICA accepts no liability for any improper use.