

AQUARIUM SILICONE

1 – DESCRIPTION

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

2 – PROPERTIES

- 100% silicone
- Very good bond and physical strength
- Rapid curing
- Non-toxic to fish
- One component, cures with atmospheric moisture
- Keep its elasticity at low and high temperatures
- Does not crack, discolour or shrink
- Resistant to many chemicals
- Resistant to UV radiation

3 - APPLICATIONS

- Bonding, sealing and repairing of aquariums
- Construction of glass structures
- On glass/aluminum structures
- Sealing of windows and doors
- Sealing of ventilation, heating and air-conditioning systems
- Glazing on aluminum frames and shop displays

4 - INSTRUCTIONS

- Ensure that surfaces to be sealed are clean, dry and grease free.
- The application temperature must be between +5 °C and +40 °C.
- After the application, the sealant must be tooled with light pressure within 5 minutes to spread the material against the joint surfaces and to obtain a professional finish.
- Excess uncured sealant may be cleaned with solvent. Cured sealant can be removed barely mechanically.
- 6 mm. joint depth is recommended for joint widths between 6 mm to 12 mm.

Consumption (approx.)

| | | | |
|--------------------|----------|----------|----------|
| Joint Width | 6mm | 9mm | 12 mm |
| Joint Depth | 6mm | 6mm | 6 mm |
| Efficiency /310 ml | 8 meters | 6 meters | 4 meters |

5- PACKAGING

| Product | Volume | Package |
|---|---------------|---------|
| AQUARIUM SILICONE SEALANT (Transparent) | 310ml / 280ml | 24 |
| AQUARIUM SILICONE SEALANT (Black) | 310ml / 280ml | 24 |

6- STORAGE AND SHELF LIFE

- 18 months if stored properly.

7- RESTRICTIONS

- Not suitable for applications in direct contact with marble, granite or other natural stones.
- Not recommended for direct contact with mirror and metals such as lead, copper, zinc or brass as it may cause corrosion.
- Not paintable.

8- SAFETY

If inhaled for a long time in large volumes, vaporizing acetic acid may cause irritation of the respiratory system. Therefore, the application must take place in a well-ventilated room. Prolonged contact with uncured sealant must be avoided.

9- TECHNICAL PROPERTIES

| | |
|--------------------------------|-------------------------------------|
| Basis | : Silicone Polymer |
| Curing System | : Acetoxy |
| Density | : 1.02 ± 0.03 g/ml |
| HardnessShore A | : 24-30 (after 28 days) |
| Tensile Strength | : ≤ 0,4N/mm ² (ISO 8339) |
| Skin formation | : 7-13 min. (23°C and 50% R.H) |
| Curing Rate | : Min. 3 mm/day(23°C and 50% R.H) |
| Elongation At Break | : ≥ 250% (ASTM D412) |
| Elastic Recovery | : %100 (ISO 7389) |
| Sagging | : 0 mm (ISO 7390) |
| Change in volume | : < 5% (ISO 10563) |
| Temperature Resistance | : -50°C to +200°C |
| Application Temperature | : +5°C to +40°C |