AQUARIUM SILICONE SEALANT

1 – DESCRIPTION

Aquarium Silicone Sealant 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, silos and containers
- General glazing and glass works
- Glazing on aluminum frames and shop displays
- Sealing of windows
- Universal building and construction joints
- Sealing of ventilation, heating and air-conditioning systems

4 - INSTRUCTIONS

- It is recommended to make the application between +5 ^{O}C and +40 ^{O}C. Surfaces must be clean and dry. In order to reduce the deformations of the joints, their depth must be much less than their width, minimum dimensions are 5x5 mm, for wider joints the depth should be preferably half of the width and it is adjusted by the use of a back up material.
- To ensure straight sealant edges, the areas adjacent to joints must be masked with a masking tape. 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.

5- STOROGE AND SHELF LIFE

- 18 months if stored at room temperature.

6- PACKAGING

Product	Volume	Package
Aquarium Silicone Sealant	310ml	30

7- RESTRICTIONS

• Aquarium Silicone Sealant is not suitable for applications in direct contact with marble, granite or other natural Stones.
• Aquarium Silicone Sealant is not recommended for direct contact with mirror and metals such as lead, copper, zinc or brass as it may cause corrosion.
• Aquarium Silicone Sealant is not over paintable.

8- SAFETY

If inhaled in over a prolonged period or in large volumes, the acetic acid vapours released during curing 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 avaoided.

9- TECHNICAL PROPERTIES

Basis	: Silicone Polymer	
Curing System	: Acetoxy	
Density	: 1.00± 0.02 g/ml	(ISO 1183)
Hardness Shore A	: 20-30 (after 28 days)	(ASTM C661)
Max. Tensile Strength	: 3N/mm^2	(ASTM D412)
Skin formation	: 5-15 min. (23°C and 50% R.H)	(**ASTM** C679)
Curing Rate	: Min. 2,5 mm/day (23°C and 50% R.H)	
Tensile Strength	: 0,3N/mm^2 (23°C and 50% R.H)	(ISO 8339)
Elongation At Break	: > 150%	(ISO 8339)
Elastic Recovery	: ≥ 70%	(ISO 7389)
Sagging	: 0 mm	(ISO 7390)
Temperature Resistance	: -50°C to +200°C	
Application Temperature	: +5°C to +40°C	