

**TECHNICAL DATA SHEET**

**DOLPHIN 110 Aquarium & Glass Silicone Sealant**

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**PRODUCT DESCRIPTION**

Dolphin 110 Aquarium & Glass Silicone Sealant is a single component Acetic cure sealant, which is cured by atmospheric moisture to form a high strength rubber seal with excellent adhesion. It is mainly recommended for aquarium manufacturing because of its extra anti-bacterial, negligible shrinkage, and high tensile strength properties.

**TECHNICAL PROPERTIS**



Properties	Test Method	Unit	Specifications
Chemical Base			1-C Silicone
Cure Mechanism			Moisture
Cure Type			Acetoxy
<b>As Supplied @ 25°C, 50% RH</b>			
Color			Clear, Black
Consistency			Homogeneous paste
Density	ASTM D 1475		1.00 ± 0.01
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 8
Tack Free Time	ASTM C 679	minutes	Approx. 13
Depth Cure, 24 hrs	Lab Test	mm	~ 2.5
<b>As Cured – 7 Days @ 25°C, 50% RH</b>			
Hardness (Shore A)	ASTM D 2240	Points	24 – 28
Tensile Strength	ASTM D 412	N/mm <sup>2</sup>	< 0.90
Elongation	ASTM D 412	%	≤ 550
Young's Modulus	ASTM D 412	MPa	< 0.4
Service Temp.		°C	-20 to +250
Application Temp.		°C	5 to 45

Note:

\* Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application.

\* Information on this data sheet is subject to change without prior notice and should not be used for writing specifications

**TYPICAL USES**

- Interior Application Only
- Aquarium manufacturing
- Terrarium manufacturing
- Glass viewing panel
- Construction joints
- Aluminum Joints
- Architect/Decorative purpose

**KEY FEATURES**

- Negligible Shrinkage
- 100% Silicone
- Excellent Adhesion

<b>COLORS</b>	DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT is available in Clear and Black colors.
<b>PACKAGING</b>	DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT is available in standard caulking cartridges (280 ml) and 200 Liter drum.
<b>SURFACE PREPARATION</b>	The substrate areas that will be in contact with sealant must be clean, dry and free of all loose materials, dust, dirt, rust, oil and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with another such cloth before the solvent evaporates from the surface.
<b>TOOLING AND FINISHING</b>	Immediately tool sealant after application and before skin formation. Tooling of sealant should be done in one continuous stroke. Remove masking tape immediately after tooling is completed.
<b>CLEANUP AND REMOVAL</b>	Uncured sealant may be removed from tools, equipment and non-porous surfaces with solvents. For porous substrates, allow the sealant to cure before removal by peeling or other mechanical means. Cured sealant can only be removed mechanically.
<b>LIMITATIONS</b>	Not paintable. May not be suitable to join sensitive natural stones such as marble, granite or quartz, as this may cause staining. Not to be used in contact with sensitive metals such as lead, copper, brass, zinc, carbon steel, galvanized iron or magnesium as corrosion may occur during acetic acid release/sealant cure. Substrate compatibility test is always recommended.
<b>STORAGE AND SHELF LIFE</b>	When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT has a shelf life of 18 months from manufacturing date. Containers should always be kept sealed when not in use.
<b>HANDLING PRECAUTIONS</b>	Use in well-ventilated area. Direct contact of uncured sealant irritates eyes and may irritate skin. Over exposure to vapor may irritate eyes, nose and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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