

TECHNICAL DATA SHEET

DOLPHIN 110 Aquarium & Glass Silicone Sealant

Revision Date : 20th Sept, 2022

Revision No. 4

Number of Pages : 2

PRODUCT DESCRIPTION

Dolphin 110 Aquarium Silicone is a permanently flexible sealant with crack or shrink protection. It forms a strong waterproof seal that is resistant to leaks. It is specifically recommended for aquarium manufacturing because of its extra anti-bacterial and high tensile strength Properties. This is nontoxic and can be used on freshwater or salt water aquariums. It is single component Acetic cure sealant, that cures to atmospheric moisture and forms a long lasting bond. It is an easy to apply solutions that perfectly suits with all the aquariums.

TECHNICAL PROPERTIS



Properties	Test Method	Unit	Specifications
Chemical Base			1-C Silicone
Cure Mechanism			Moisture
Cure Type			Acetoxy
As Supplied @ 25°C, 50% RH			
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
As Cured – 7 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D 2240	Points	24 – 28
Tensile Strength	ASTM D 412	N/mm ²	< 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
- Galvanized Aluminum Joints
- Architect/Decorative purpose

KEY FEATURES

- Negligible Shrinkage
- 100% Silicone
- Excellent Adhesion

COLORS	DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT is available in Clear and Black colors.
PACKAGING	DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT is available in standard caulking cartridges (280 ml) and 200 Liter drum.
SURFACE PREPARATION	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.
JOINT DIMENSIONS	Joint dimensions: Min. width for joints: 5 mm, Max. width for joints: 30 mm, Min. depth for joints: 5 mm. Recommendation Sealsssing jobs: Joint width= 2 X Joint depth
TOOLING AND FINISHING	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.
CLEANUP AND REMOVAL	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.
LIMITATIONS	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.
STORAGE AND SHELF LIFE	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.
HANDLING PRECAUTIONS	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.

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