



## TECHNICAL DATA SHEET

## **DOLPHIN 110 AQUARIUM & GLASS SILICONE SEALANT**

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## **PRODUCT DESCRIPTION**

Dolphin 110 Aquarium & Glass Silicone Sealant 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 saltwater 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 PROPERTIES**



Properties	Test Method	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 <u>+</u> 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Skin Over Time	ASTM C 679	Approx. 8 minutes
Tack Free Time	ASTM C 679	Approx. 13 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.5 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	24-28 Points
Tensile Strength	ASTM D 412	< 0.90 N/mm <sup>2</sup>
Elongation	ASTM D 412	<u>&lt;</u> 550 %
Young's Modulus	ASTM D 412	< 0.4 MPa
Service Temp.		-20 to +250 °C
Application Temp.		5 – 45 °C

(Information on this data sheet is subject to change without prior notice and should not be used for writing specifications) (Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application)

TYPICAL USES	KEY FEATURES
Interior Application Only	Negligible Shrinkage
Aquarium manufacturing	• 100% Silicone
Terrarium manufacturing	Excellent Adhesion
Glass viewing panel	
Construction joints	
Galvanized Aluminum Joints	
Architect/Decorative purpose	

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COLORS	Dolphin 110 aquarium & glass silicone sealant is available in Clear and Black colors.  RAL* colors are available upon request.  *Special color orders may require lead time and minimum order quantities.
PACKAGING	<b>Dolphin 110 aquarium &amp; glass silicone sealant</b> 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 Sealing 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, <b>Dolphin 110</b> 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.

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

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. AMI reserves the right to change the properties of its products without notice.

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PRODUCTY

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