

TECHNICAL DATA SHEET

DOLPHIN 105 ALUMINIUM & GLASS SILICONE SEALANT

Revision Date: 20th Sept 2022

Revision No: 04

Number of Pages: 2

PRODUCT DESCRIPTION

Dolphin 105 Glass & Aluminum Silicone Sealant is 100% silicone with absolutely Zero Shrinkage. It's a single component Acetic cure sealant, which is cured by atmospheric moisture to form a powerful rubber seal. Dolphin 105 Silicone is specially designed for Glass and Composite Panels and forms an unprimed adhesion to cleaned substrates like glass, glazed surfaces, galvanized aluminum, and other galvanized metals. It also builds a high strength seal to plastics, tiles, wood, and concrete. It is resistant to UV and assures enhanced quality and long term performance.

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 ± 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	21-26 Points
Tensile Strength	ASTM D 412	< 0.90 N/mm ²
Elongation	ASTM D 412	≤ 500 %
Young's Modulus	ASTM D 412	< 0.40 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

- Galvanized Aluminium Sliding and Galvanized Metal Sliding
- General Industrial Applications
- Glass Glazing
- Sheet metalwork
- General Sealing and waterproofing
- General Constructions

KEY FEATURES

- Negligible Shrinkage
- Excellent Adhesion
- Anti-Fungal & Anti-Bacterial
- UV & Weather resistant



WORLD-CLASS
CHEMICALS

COLORS	Dolphin 105 aluminum & glass silicone sealant is available in Clear, White, Black, and Grey. RAL* colors are available upon request. *Special color orders may require lead time and minimum order quantities.
PACKAGING	Dolphin 105 aluminum & glass silicone sealant is available in standard caulking cartridges 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, Dolphin 105 aluminum & 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 & PROFESSIONAL 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.