

## TECHNICAL DATA SHEET

### DOLPHIN 120RTV 300°C Silicone Sealant

Revision Date : 20<sup>th</sup> Sept, 2022

Revision No. 4

Number of Pages : 2

#### PRODUCT DESCRIPTION

Dolphin 120 RTV is special sealant for usages subject to high temperatures. It has a temperature resistance up to 300°C. The product has a greater resistance to varied number of chemicals that are a part of joints towards chemical exposure. It is made of 100% RTV silicone and exhibits a negligible amount of shrinkage. 120 High-Temperature Silicone Sealant is a single component Acetic cure range sealant which cures by atmospheric moisture.

#### 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			Red, Black, Grey
Consistency			Homogeneous
Density	ASTM D 1475		1.01 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 7
Tack Free Time	ASTM C 679	minutes	Approx. 12
Depth Cure, 24 hrs	Lab Test	mm	~ 2.8
<b>As Cured – 7 Days @ 25°C, 50% RH</b>			
Hardness (Shore A)	ASTM D 2240	Points	23 – 27
Tensile Strength	ASTM D 412	N/mm <sup>2</sup>	< 1.00
Elongation	ASTM D 412	%	≤ 650
Young's Modulus	ASTM D 412	MPa	< 0.29
Service Temp		°C	-40 to +300
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
- Gasket Making
- Electrical insulation
- Sealing, cooking and heating equipment
- Transmission cover, Timing case
- Engine side cover
- Sealant for solar modules, Marine Freight containers
- Water pump mounting

#### KEY FEATURES

- Gasket Maker
- 100% RTV Silicone
- Negligible Shrinkage

<b>COLORS</b>	DOLPHIN 120 High Temperature Silicone Sealant is available in Red, Black and Grey.
<b>PACKAGING</b>	DOLPHIN 120 High Temperature Silicone Sealant is available in collapsible tubes (90ml), 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>JOINT DIMENSIONS</b>	Joint dimensions: Min. width for joints: 5 mm, Max. width for joints: 30 mm, Min. depth for joints: 5 mm. <b>Recommendation Sealing jobs:</b> Joint width= 2 X Joint depth
<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 120 HIGH TEMPERATURE 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

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