

# TECHNICAL DATA SHEET

## DOLPHIN 120 RTV 300°C SILICONE SEALANT

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### PRODUCT DESCRIPTION

**Dolphin 120 RTV 300°C silicone sealant** 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 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, Grey
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. 7 minutes
Tack Free Time	ASTM C 679	Approx. 12 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.8 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	23-27 Points
Tensile Strength	ASTM D 412	< 1.00 N/mm <sup>2</sup>
Elongation	ASTM D 412	≤ 650 %
Young's Modulus	ASTM D 412	< 0.29 MPa
Service Temp.		-40 to +300 °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

- 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 RTV 300°C silicone sealant is available in Red, Black, and Grey.
<b>PACKAGING</b>	Dolphin 120 RTV 300°C 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>	<b>Joint dimensions:</b> 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, <b>Dolphin 120 RTV 300°C silicone sealant</b> 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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