

Product Data Sheet



ASMACO HI – TEMP RTV SILICONE

Product Description:

ASMACO HI – TEMP RTV SILICONE is a single component, non sagging, 100% RTV silicone sealant that cures to tough, rubbery solid at room temperature upon reaction with moisture in the atmosphere. This high temperature silicone is formulated to withstand temperatures up to 300°C. It can be used in numerous sealing and bonding applications.

Uses:

- Sealing and encapsulating elements in appliances
- Stove and furnace vent pipes
- Moving oven belts
- Industrial ovens
- Bag filters on smoke stacks
- Other high temperature bonding, sealing, encapsulation and potting applications
- Construction Sealant
- Caulking joints in equipment and sheet metal stacking in the insulation industry
- Resist UV rays

Typical Properties:

Color	Red / Grey
Flow or slump	Nil
Cure Characteristics @ 25°C, 50% RH	
Skin-over time	3 – 6 min
Tack free time	20 min
Cure speed	3 mm / day
Cured properties after 72 hrs	
Hardness (ASTM D 2240)	30 Shore A
Tensile strength (ASTM D 638)	330 Psi
Elongation (ASTM D 638)	475%
Unprimed adhesion on most of the surfaces*	Good
Usage temperature range	-65°C to 300°C

*Optimum adhesion after 7 to 10 days of curing.

Usage of primers are recommended where more adhesion is required This information is subjected to change without notice and should not be used to write specifications For additional information write to info@anchorallied.com

Usage Instructions:

ASMACO HI – TEMP RTV SILICONE is supplied as a ready to use product. The product can be used with normal caulking guns. The non sag paste consistency of the material makes it very friendly to use, easy to tool with spatula. The product cures at room temperature when it is exposed to moisture and the curing happens from surface to inside the sealant. The skin formation happens within a maximum period of 15 minutes. Any necessary tooling has to be completed within 5 minutes of application. If in case masking tape is used to mark off the area, it has to be removed before skin is formed.



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High Temperature
Silicone Sealant / Adhesive

Self-Leveling

Weather Resistant

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Cure Time:

The time required for curing is affected by atmospheric conditions like relative humidity and temperature, degree of confinement and thickness of the sealant. The product cures at a rate of 3mm per day @ 25oC and a relative humidity of 50%. Less moisture content reduces the rate of cure. Curing time increases with thickness. The application in confined spaces generally lengthens the curing process. It is possible that in total confinement the curing will not be complete and this will result in the softening of the sealant in elevated temperatures. Metal to metal bonds should not overlap more than one inch. Every application involving confinement while curing must be thoroughly tested before commercialization. Vinegar like odour given off during curing is due to the acetic acid liberated as a part of curing reaction and it disappears as the curing progress. Once the curing is complete, further odour will not be detectable.

Bonding: 1. All surfaces should be clean from any contamination like oil, grease, dust rust etc. Thoroughly clean the metal and plastic surfaces and then rinse all surfaces, except plastics with acetone. Rubber surfaces should be roughened with sand paper, and then wiped with acetone. Follow precautions given on solvent container. 2. Apply ASMACO HI – TEMP RTV SILICONE to the prepared surface in uniform thickness. Best bonding is obtained with a glue line thickness of 0.4 to 0.75 mm. In case of adhesive usage between surfaces, put the second surface in place using sufficient pressure to displace the air but not the adhesive. 3. Keep the assembly\undisturbed till the curing is complete.

Caution:

Direct contact with uncured Sealant irritates eyes and may irritate skin. Over exposure to Vapour may irritate nose and Throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand. In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention. In case of skin contact, remove from skin and flush with water. Sealant liberates acetic acid on curing. Keep out of reach of children. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

Storage and Shelf Life:

Store in cool dry place, not over 25oC away from direct sun light and source of heat. ASMACO HI – TEMP RTV SILICONE has a shelf life of 12 months from the date of manufacturing if stored in original unopened container. In places where high heat and humidity are present, special precautions must be taken. Store product in a covered, well ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity condition may reduce shelf life by around 30 %. Follow First In First Out strictly. Cartons should always be stacked upright with nozzle tip pointing upwards. Don't stack cartons on their sides. Never stack cartons more than 8 high. Don't store within one meter of roofing of the ware house or storage building.

Packaging:

ASMACO HI – TEMP RTV SILICONE is available in standard caulking cartridges. Other sizes like sausage and tubes are available upon request.

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Non – Warranty: Because the storage, handling and application of the material is beyond Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Anchor Allied Factory Ltd will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.



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SILICONE SEALANTS • WATERPROOFING COATINGS • PU SEALANTS • POLYSULPHIDE SEALANTS • ACRYLIC & DUCT SEALANTS
POLYURETHANE FOAM • SPRAY PAINT • SILVER CLOTH DUCT TAPE • CREPE PAPER MASKING TAPE • ALUMINIUM FOIL TAPE
P.E. PROTECTION TAPE • PVC PIPE WRAP TAPE • CONTACT ADHESIVE • EPOXY STEEL • PVC CEMENTS • SUPER GLUE