ASI 502
High Performance 100% RTV Silicone

American Sealants Inc.

ASI 502 100% Silicone has been formulated for use as a high performance industrial & construction grade adhesive/sealant that will provide long term performance through its physical properties & resistance to weathering & de-grading. It is a paste-like, one component material that cures to form a durable solid rubber when exposed to moisture in the air. ASI 502 will not sag or slump so it can be applied to both vertical & overhead substrates without sagging. It can be used on both interior or exterior applications because it has excellent resistance to weathering, UV degradation, yellowing, etc. ASI 502 contains no solvents so it will not shrink or crack. This product is acceptable as a sealant on surfaces with incidental food contact (NSF 51).

NO SHRINK/CRACK | WATER TIGHT | UV RESISTANT

Common Bonding Substrates:

ASI 502 can be used on a variety of substrates. Please inquire or test your substrates before use. Substrates may vary with manufacturer. We have listed some common substrates:

- Glass
- Most Metals
- Some Plastics
- Steel
- Tile
- PVC
- Marble
- Most Types Of Woods
- Most Fiberglass
- Aluminum
- Ceramic
- Porcelain
- Solid Surface Countertops
- Most Painted Substrates

Can be used on additional substrates not listed. End user is responsible for testing specific environment or substrate prior to use. Substrates may vary by manufacturer.

Common Applications:

ASI 502 is an excellent sealant/adhesive for many Commercial, Industrial and Construction applications. Common applications include:

- Industrial, Construction
- HVAC
- Appliance Manufacturing
- Refrigeration Units
- Walk-in Freezers
- Sealing Trailers
- Formed In Place Gaskets
- Sheet Metal
- Ductwork
- Countertops
- Kitchen & Bath
- Sanitary Seals
- Plumbing
- Telecommunications Including Coaxial Cable Connectors
- General Sealing & Adhering

Can be used for other various applications depending upon substrate. Test all substrates before use.

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	902,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	10 minutes (70°F, 50% RH)
Density	ASTM D1475	8.5 lbs./gal
Hardness	ASTM C661	25 (Shore A)
Extrusion Rate	ASI Test Method	365 g/min
Tensile Strength	ASTM D412	264 psi
Elongation at Break	ASTM D412	500%
Application Temperature	ASI Test Method	-35°F to 150°F
Gun Grade	ASI Test Method	Pass (Non-Slump)
QUV Testing	ASTM G154	Pass (10,000 hrs)
Service Temperature*	ASI Test Method	-70 °F to 400°F
Typical Cure Rate	ASI Test Method	24 hrs. (1/8" bead)

**Intermittent temperature up to 450°F. Strength will start to develop immediately and continue increasing for 7 days after application. ASI recommends testing strength and adhesion on the 7th day. ASI 502 suggested application temperature range: -35°F to 150°F. Testing should be done to confirm temperature requirements are met. Information on this data sheet can change without notice and it is therefore not recommended that these figures be used in spec writing. If you have any questions contact manufacturer's sales and technical service department.*

Features:

- 100% Acetoxy RTV Silicone
- Mold & Mildew Resistant
- Resistant to UV Degradation And Weathering
- Withstands Extreme Cold & Extreme Heat
- 25% Joint Movement Capability
- One-Component, Easy To Use Formulation
- Easy to Extrude At Cold Temperatures
- Non-Slump, Can Use On Overhead & Vertical Applications
- Excellent For Indoor & Outdoor Applications
- Creates A Waterproof Seal

Conforms, Meets & Exceeds:

- ASTM C920 Class 25, Type S, Grade NS, Use NT, G, O
- TT-S-01543A
- TT-S-00230-C
- MIL 46106B Type 1
- NSF Standard 51
- FDA Regulation No. 21 CFR 177.2600
- UL Recognized
- VOC Compliant (23 grams/liter ASTM D2369)

Colors

ASI 502 is available in clear, white, black, aluminum almond, bronze, gray, trans white, trans blue, trans rose, trans green, trans charcoal, trans beige, trans earth and trans gray. Additional colors can be available for purchase. Inquire to ASI sales staff for additional information.

Packaging

ASI 502 is stocked in squeeze tubes, cartridges, pails and drums. It can also be packaged in quart cartridges, sausage packs, semcos and pouches. Additional packaging may be available upon request. Inquire to ASI sales staff for additional information.



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Surface Preparation

All surfaces should be dry and clean. 100% IPA (isopropyl alcohol) or acetone can be used to clean the surface depending on the substrate. DO NOT USE petroleum based solvents. Priming for ASI 502 is not normally required. If a primer is required, please inquire to ASI sales staff. Unprimed adhesion can be easily tested by applying a small trial bead and allowing 7 days for maximum adhesion to occur. If primer is required, contact ASI.

Directions

ASI 502 is ready to use and requires no mixing or additives. Tooling, if necessary, should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement. Higher temperature and higher humidity will accelerate skin & cure time. Cold temperatures and low humidity will slow down skin & cure time.

Clean Up

Wet adhesive can be cleaned with ASI 0240 Adhesive Remover & Cleaner. Dry sealant can be removed by abrading or scraping with aid from ASI 0240. See ASI 0240 TDS for more information.
Caution/Safety

Please refer to the SDS for the corresponding product for information regarding safety and handling.

Testing

Test per application requirement. Allow 7 days for maximum strength to develop before testing adhesion or strength.

Storage

When stored at 70ºF and 50% RH, ASI 502 has a shelf-life of 12 months from date of shipment in cartridges, squeeze tubes, pails & drums. High temperature and high humidity can significantly reduce shelf-life.

Military Specification

ASI 502 meets the requirements of MIL 46106B Type 1.

Limitations

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and low humidity will slow curing. Do not use on porous surfaces such as concrete, mortar or brick. This product is not paintable.

Warranty Limitations

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. 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 requires government approval or clearance, it is the sole responsibility of the user to obtain such authorization. Because the storage, handling and application of the material is beyond ASI's control, we can accept no liability for the results obtained. ASI's sole limited warranty is that the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. ASI will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe upon any patents.

VOC COMPLIANT

NSF

File No. E209770

TDS ASI 502 100526

Meridian Product Assembly

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