



American Sealants, Inc.

"High Performance Silicones, Sealants, and Adhesives"

ASI 504 Commercial Grade Silicone Sealant

PRODUCT DATA SHEET

OEM Industrial and Construction Product

Features:

- High Modules Silicone Sealant
- High Performance, Excellent Adhesion
- Resistant to UV degradation and Weathering
- Meets a wide variety of building standards
- Meets ASTM C-920-86 requirements
- Bonds to a Variety of Common Substrates
- Excellent Tensile Strength and Versatility

Additional Benefits:

- Contains No Solvents or Isocyanates which makes ASI 504 VOC Compliant
- Easy to Dispense and work with at a Variety of Extreme Temperatures
- Withstands a wide range of high heat and extreme cold
- Fast Tack Free Time

Common Applications:

ASI 504 is an excellent sealant and/ or adhesive for many Commercial, Industrial, and Construction applications where a long-term, permanently flexible bond or seal is required. Such applications include:

- OEM Applications (depending on substrates)
- Bathroom Installation/Sealing
- HVAC
- General Sealing and Waterproofing
- General Construction
- Aluminum Siding and Metal Siding
- General Industrial Applications
- Metal Building and Portable Housing Applications
- Glass Glazing
- Formed in place gaskets
- Sheet Metal Work
- Gutter Sealant
- Engine Components
- Telecommunications Including Coaxial Cable Connectors
- Etc. (Can be used for various applications depending upon substrate)

Description:

ASI 504 Commercial Grade Silicone Sealant Adhesive is a one-part, moisture- curing RTV (room temperature vulcanizing) silicone that cures to a strong, silicone rubber that maintains long-term durability and flexibility. ASI 504 contains no solvents or isocyanates which makes it VOC compliant. Due to the formulation, ASI 504 works well for a variety of applications. ASI 504 is a non-slump sealant and can be applied to vertical or overhead surfaces without flowing or sagging. ASI 504 also has excellent resistance to weathering including ozone, ultra-violet radiation, freeze-thaw conditions and airborne chemicals. ASI 504 can be applied to surface temperatures from -18°C to +50°C (0°F to +120°F) and after curing, withstands constant operating temperatures from -57°C to +205°C (-70°F to 400°F).

Common Bonding Substrates:

ASI 504 can be used on a variety of substrates that are not listed below. Please inquire or test on those substrates. We have listed some common substrates for your viewing:

- Aluminum
- Ceramics
- Painted Surfaces
- Glass
- Granite
- Marble
- Metals
- Most Woods
- Most Plastics
- Porcelain
- PVC
- Steel
- Etc. (substrates may vary depending upon application)

Meets and exceeds: TT-S-001543A (Silicone Building Sealants), TT-S-00230C (One Component Building Sealant) and ASTM C-920-86.



Directions:

ASI 504 is ready to use and requires no mixing or additives. The cure mechanism begins as soon as the sealant comes in contact with the air. At conditions of 25°C (77°F) and 50% relative humidity, the sealant will skin in 10 minutes and fully cure in 24 hours (1/8" bead) and reaches its maximum adhesion in 7 days. Higher humidity accelerates curing. 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.

Surface Preparation:

All surfaces should be clean and dry. If necessary bonding surfaces can be solvent wiped with naphthas, ketones or chlorinated solvents. Specific solvents would include xylol, toluol and mineral spirits. In case of plastics, determine suitability of solvent prior to use. Allow surface to dry thoroughly before applying sealant. Do not solvent wipe with alcohols or oil-containing solvents such as Varsol. Priming for ASI 504 is not normally required for applications to nonporous surfaces. 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.

Listed Properties:

Cured Properties	
Movement Capacity	±25%
Extrusion Rate	425 gr/min.
Service Temperature	-70°F to 400°F
Application Temperature	0°F to 120°F
Elongation	425
Durometer, Shore A	20
Tensile Strength	330 psi
Cured Physical.....	7 days @ 77 F and 50% Relative Humidity (1/8" bead)
Uncured Properties	
Tack-Free Time at 77°F (25°C) and 50% RH	10-20 min.
Colors.....	White, Black, Clear

Colors:

ASI 504's colors are clear, white and black. Other colors available upon request.

Packaging:

ASI 504 is supplied in: (10.2 fl. oz.) caulking cartridge, (40 lb.) pail and (429 lb.) drum. Special Packaging Available upon request.

MILITARY SPECIFICATIONS:

ASI 504 meets the requirements of MIL-46106 Type 1.

CONSTRUCTION SPECIFICATIONS:

TT-S-001543A (Silicone Building Sealants), TT-S-00230C (One Component Building Sealant) and ASTM C-920-86.

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.

Safety Precautions:

ASI 504 releases small amounts of acetic acid during cure. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush eyes well with water and call a physician. Avoid prolonged contact with skin.

Storage:

ASI 504, when stored in original, unopened container at or below 32°C (90°F), has a shelf life of 12 months from date of shipment.

Warranty Limitations:

ASI warrants only that its products will meet its specifications. ASI shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, ASI's liability, expressed or implied is limited to the stated selling price of any defective goods.