



American Sealants, Inc.
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Product Data

ASI 504 Commercial Grade Silicone Sealant/Adhesive

ASI 504 RTV Commercial Grade Silicone shows excellent resistance to weathering, vibration, moisture, ozone and extreme temperatures. It may be applied in sub-zero weather without loss of extrusion or physical property characteristics.

When **ASI 504** is fully cured it can be used for extended periods at temperatures up to 400°F (204°C). Fully cured, **ASI 504** has excellent adhesion to glass, metal, porcelain, ceramic, wood, most plastics and many other nonporous substrates.

Common ASI 504 Uses:

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)
- Skylights
- HVAC
- General Sealing
- General Construction
- Aluminum Siding
- General Industrial Applications
- Windows and doors
- Gutters
- Formed in place gaskets
- Trailers
- Etc. (Can be used for various applications depending upon substrate)

SPECIFICATIONS

ASI 504 meets the following specifications and requirements: TT-S-001543A (silicone building sealant), TT-S-00230C (one component building sealant), and ASTM C-920-86. **ASI 504** can be applied to surface temperatures from 0°F to +140°F and after curing, withstands constant operating temperatures from -40° F to 400°F. **ASI 504** is not paintable. **ASI 504** will fully cure within 24 hours at a relative humidity of 50%. Optimum Strength Achieved in 7 days.

Common ASI 504 Substrates:

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

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. Higher humidity accelerates cure.

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.

1: Clean and dry all surfaces. 2: Cut nozzle to a desired size at a 45 degree angle. 3: Break the foil in the nozzle and apply with the caulking gun, pushing the silicone in the direction of the nozzle.

Note: If tooling is required do so immediately within 10 minutes. Remove excess with a clean, dry cloth or paper towel.

Typical Properties	
Cured Properties	
Movement Capacity.....	±25%
Extrusion Rate.....	.425 gr/min.
Service Temperature.....	-80°F to 400°F
Application Temperature.....	-35° to 140°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

Caution: On contact, uncured silicone sealant irritates eyes. In case of contact with eyes, rinse thoroughly for 15 minutes and seek medical attention immediately. Silicone Sealant may also irritate skin, if irritated remove the sealant from skin and rinse with water. Contact physician if needed. Acetic acid released during application and cure, overexposure may irritate eyes, skin, and nose. Proper ventilation is required.

COLORS

ASI 504 is available in clear, white, black. Special colors are available upon request. Call for price and availability.

PACKAGING

10.1 oz. caulking cartridge

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.

Product Warranty

Except as expressly stipulated, American Sealants Inc. liability expressed or implied. ASI is limited to the stated selling price of any defective goods.

For more information on our products please visit www.americansealantsinc.com, [MSDS](#) and Product Data Sheets are available for your viewing.

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.

Information on this data sheet is subject to change without notice and it is therefore recommended that this information not be used for spec writing. For additional information or specific applications, contact manufacture.