



American Sealants, Inc.

"High Performance Silicones, Sealants, and Adhesives"

ASI 57 Hybrid Performance Sealant

PRODUCT DATA SHEET

OEM Industrial and Construction Product

Features:

- High Performance, Elastomeric Adhesive/Sealant
- Fast Cure, Hybrid Formulation
- Resistant to UV Degradation and Weathering
- Excellent, Broad Adhesion Range
- Meets ASTM C-920-86 Requirements
- Apply in Wet & Dry Climates
- Meets a Variety of Building & Safety Requirements

Additional Benefits:

- Contains No Solvents or Isocyanates which makes ASI 57 VOC Compliant
- Easy to Dispense and work with at a Variety of Extreme Temperatures
- Withstands a wide range of high heat and extreme cold
- 100% Solids, Low Odor

Common Applications:

ASI 57 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)
- Metal Building Construction
- HVAC
- General Sealing and Waterproofing
- General Construction
- Aluminum Siding and Metal Siding
- General Industrial Applications
- Metal Building and Portable Housing Applications
- Glass Glazing
- Roofing Construction
- Sheet Metal Work
- Gutter Sealant
- Industrial Applications
- Window and Door Construction
- Etc. (Can be used for various applications depending upon substrate)

Description:

ASI 57 Hybrid Performance Sealant is a one-part, polyether sealant that uses ASI's innovative hybrid technology to produce a material with many of the same characteristics of silicones and polyurethanes but with better performing properties. Unlike many polyurethanes ASI 57 contains no solvents or isocyanates which makes it VOC compliant. Due to the formulation, ASI 57 is able to cure when moisture is present without outgassing which makes it ideal for wet or dry climates. ASI 57 is a non-slump sealant and can be applied to vertical or overhead surfaces without flowing or sagging. ASI 57 has excellent movement capabilities and over 300% elongation. It is extremely resistant to weathering and UV degradation. ASI 57 is 100% solids and has a very low odor which makes it ideal for confined or occupied work spaces. ASI 57 is a paintable, non-staining hybrid sealant with a very broad adhesion profile.

Common Bonding Substrates:

ASI 57 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
- Kynar®
- Vinyl
- Painted Surfaces
- Glass
- Granite
- Marble
- Metals
- Most Woods
- Most Plastics
- Porcelain
- PVC
- Porous Surfaces (Concrete, Brick, Etc.)
- Etc. (substrates may vary depending upon application)



Directions:

ASI 57 is ready to use and requires no mixing or additives. 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.

Listed Properties:

Tack Free Time	.....Less than 40 minutes @ 77°F/50%RH
Skin Time	.....Less than 20minutes @77°F/50%RH
Sag	..... Non-sagging
Tensile Strength	..... Approx. 230 psi
Lap Shear	..... Approx. 275 psi
Elongation	..... Over 300%
High Temperature Resistance	...Up to 310°F for short periods
Low Temperature Flexibility	... Properties retained to -75°F
Hardness	..... 45-50
UV Rating	..... After 500 hours UV-A no change in appearance. Or physical properties (ASTM G53)
Corrosive Properties	.....Non-corrosive
Staining	..... Non-Staining

Storage:

ASI 57, when stored in original, unopened container at or below 32°C (90°F), has a shelf life of 12 months from date of manufacture.

Conforms, Meets and Exceeds:

Conforms to ASTM C920, Type S, Grade NS, Class 50, Use T, NT, I, G and A. AAMA 802.3 Type II Back Bedding Compound. USDA accepted.

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.

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.

Surface Preparation & Limitations:

All surfaces should be clean and dry. Contaminated substrates may affect adhesion. If there is an old adhesive or sealant, completely remove the sealant before applying the ASI 57. ASI recommends testing the ASI 57 with your substrate for compatibility before actual use. Cured ASI 57 may be painted with most industrial and consumer paints. Higher humidity and temperature accelerates cure. Low humidity or low temperature will slow cure time. This is mostly seen when temperatures are below freezing. Allow the product 7 days for maximum strength and adhesion to occur. Check with ASI Technical Service Department if you have any questions on applications.

Colors:

ASI 57's colors are white, aluminum/grey and black. Other colors available upon request.

Packaging:

ASI 57 is supplied in:
(10.2 fl. oz.) caulking cartridge,
(5 gal) pail and (55 gal) drum.
Special Packaging Available upon requests.

Safety Precautions:

Use with adequate ventilation. Inhalation of vapors during application and cure may cause slight eye or throat irritation. In case of contact with eyes, lips or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See MSDS for additional information. Keep out of reach of children.