



American Sealants, Inc.

"High Performance Silicones, Sealants, and Adhesives"

ASI 335 Neutral Cure Silicone

PRODUCT DATA SHEET

OEM Industrial and Construction Product

Features:

- 100% Silicone Sealant
- High Performance, Excellent Adhesion
- Resistant to UV degradation and Weathering
- Mold and Mildew Resistant
- Adheres to porous surfaces unlike other 100% silicones
- Low odor, non corrosive to most metals
- Low compression set and excellent oil resistance

Additional Benefits:

- Contains No Solvents or Isocyanates which makes ASI 335 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

Description:

ASI 335 Neutral Cure Silicone Sealant/Adhesive is a one-part, non-slump, moisture-curing RTV (room temperature vulcanizing) that cures to form a tough, high modulus rubber with long-term flexibility and durability. The neutral curing mechanism of ASI 335 is ideally suited for use in confined work areas since no objectionable odors are evolved. The non-slump characteristics of ASI 335 allow application to vertical or horizontal joints without flowing or sagging. ASI 335 has excellent resistance to weathering including ozone, ultraviolet radiation, freeze-thaw conditions and airborne chemicals. After cure, the wide heat stability range of ASI 335 is from -57°C to +204°C (-70°F to +400°F) and the sealant can be applied to surface temperatures from -18°C to +50°C (0°F to +120°F).

Common Applications:

ASI 335 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)
- RV Construction
- Confined work areas that require less odor
- General Sealing and Waterproofing
- General Construction
- Vinyl, aluminum, and metal siding
- General Industrial Applications
- Metal Building and Portable Housing Applications
- Glass Glazing
- Formed in place gaskets (low swell, good oil resistance)
- Sealing and bonding on porous substrates
- Engine Components
- Telecommunications Including Coaxial Cable Connectors
- Etc. (Can be used for various applications depending upon substrate)

Common Bonding Substrates:

ASI 335 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
- Porous substrates (concrete, mortar, brick)
- Glass
- Granite
- Marble
- Metals
- Most Woods
- Most Plastics
- Porcelain
- PVC
- Vinyl
- Steel
- Etc. (substrates may vary depending upon application)



Directions:

ASI 335 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 xylo, 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 335 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:

Characteristics	Test Method	Results
Shore A Hardness	ASTM D2240	30+2
Tensile @ Break	ASTM D412	250+25 psi
Elongation @ Break	ASTM D412	400+25 %
Modulus @ 100% Elongation	ASTM D412	90+10 psi
Tear Strength	ASTM 624 (Die B)	30 +10 psi
Adhesion Strength (Peel)	TT-S-001 543, 3.5.9.	
Glass		10+2 ppi
Aluminum Primed		8+2 ppi
Mortar (Primed)		12+2 ppi
Sag, or Slump	TT-S-001 543, 3.5.2	Nil
Shrinkage (Weight Loss)	TT-S-001 543, 3.5.5	<5%
Extrusion Rate	1/8" orifice, @ 50 psi	130+5 gm/mm
Service Temperature Range	---	-18°C to +50°C
Tack Free Time	TT-S-001 543, 3.5.6	10-20 minutes
Cure Time (1/8" Bead)	---	24 Hours
Cure Time -Ultimate Strength		7 Days
Joint Movement Capability	4:1 Safety Factor	+25%
Chemical Resistance	List Available	Excellent
Color Retention	---	Excellent
Weatherability	---	Excellent
Reactivity of Byproducts		Non-Corrosive to Most substrates
Electrical Properties @72°F (22°C)		
Dissipation Factor	ASTM D150	50 Hz - 0.0009 1kHz-0.0004 1 MHz - 0.0002
Dielectric Constant	ASTM D150	50 Hz - 2.7 1 kHz-2.7 1 MHz - 2.7
Volume Resistivity, .cm	ASTM D257	2 x 10 ¹⁴
Surface Resistivity,	ASTM D257	3 X 10 ¹⁶
Dielectric Strength, KV/mm	ASTM D149	18

MILITARY SPECIFICATIONS:

ASI 335 meets the requirements of MIL 46106 Type 1.

Colors:

ASI 335's colors are clear, white, black, aluminum/gray. Special colors are available upon request. Call for price and availability.

Packaging:

ASI 335 is supplied in:
(10.2 fl. oz.) caulking cartridge,
(40 lb.) pail and (440 lb.) drum.
Special Packaging Available upon request.

Safety Precautions:

On direct contact, uncured sealant may irritate eyes. Flush eyes well with water and call a physician. Avoid prolonged contact with skin.

Storage:

ASI 335, 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.

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.