

ASI 306 ELECTRONIC GRADE SELF-LEVELING SILICONE

TECHNICAL DATA SHEET



ELECTRONIC GRADE



LOW ODOR



NON-CORROSIVE

ASI 306 Electronic Grade Self-Leveling Silicone is a one component, RTV (room temperature vulcanizing) product that can be used for encapsulating, coating and sealing. No acetic acid or other corrosive by-products are generated during its cure which allows the ASI 306 to be used around sensitive metals and electronics. ASI 306 cures at room temperature to form a tough, high-modulus rubber. ASI 306 has excellent unprimed adhesion to a very wide range of substrates including metals (i.e. chrome), glass, most woods, ceramics and various plastics. ASI 306 will resist weathering, moisture, vibration, ozone, ultra-violet and temperature extremes. It will also resist various chemicals and oils depending on the chemical and duration of the contact.

COMMON BONDING SUBSTRATES:

ASI 306 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
- Granite
- Marble
- Metal
- Most Types Of Woods
- Most Fiberglass
- Aluminum
- Ceramic
- Natural & Synthetic Fiber
- Most Painted Surfaces
- Some Plastics

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 306 is excellent for use as a sealant and for coating.

Common applications include:

- Encapsulating Electronics
- Thin Section Electronics
- Coating
- Horizontal Joint & Gap Filling

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

FEATURES

- Neutral Cure RTV Silicone
- Excellent Unprimed Adhesion
- Resistant to UV Degradation And Weathering
- Low Viscosity, Self-Leveling
- One-Component, Moisture Curing
- Non-Corrosive Formulation
- Ideal For Encapsulating, Sealing & Coating
- Does Not Contain Solvent or Acetic Acid

CONFORMS, MEETS & EXCEEDS

- VOC Compliant (23 grams/liter ASTM D2369)



Physical Properties	Test Method	Result
Viscosity	ASI Test Method	35,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	10 minutes (70°F, 50% RH)
Density	ASTM D1475	8.7 lbs./gal
Hardness	ASTM C661	25 (Shore A)
Extrusion Rate	ASI Test Method	N/A
Tensile Strength	ASTM D412	300 psi
Elongation at Break	ASTM D412	300%
Lap Shear	ASTM D412	N/A
Gun Grade	ASI Test Method	Pass (Self-Leveling)
QUV Testing	ASTM G154	Pass (10,000 hrs)
Service Temperature*	ASI Test Method	-30 °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 306 suggested application temperature range: -30°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.*

ASI 306 ELECTRONIC GRADE SELF-LEVELING SILICONE

COLORS

ASI 306 is available in clear, white and black. Additional colors can be available for purchase. Inquire to ASI sales staff for additional information.

PACKAGING

ASI 306 is stocked in cartridges, pails and drums. Additional packaging may be available upon request. Inquire to ASI sales staff for additional information.

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 306 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 306 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 70°F and 50% RH, ASI 306 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 306 meets the requirements of MIL 46106B Type2.

LIMITATIONS

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and low humidity will slow curing. Thick potting applications may take time to completely cure through. 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.



TDS ASI 306 050324