



505 INDUSTRIAL GRADE SELF-LEVELING SILICONE

TECHNICAL DATA SHEET



NO SHRINK/CRACK



SOLVENT-FREE



UV RESISTANT



Our expertise is your solution.

chemical-concepts.com

800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

ASI 505 Self-Leveling RTV Silicone is a one-component, moisture cure, flowable material designed for a variety of potting, coating, sealing and waterproofing applications. Once applied, ASI 505 will begin skinning in 8 minutes and continue curing to form a flexible, durable rubber that bonds well to a wide variety of substrates. ASI 505 will resist a wide temperature range (-70°F to 400°F) and will not degrade when used in exterior applications or under water. It is extremely UV resistant and will not shrink, crack or dry out long-term. ASI 505 contains no solvents and is VOC compliant.

COMMON BONDING SUBSTRATES:

ASI 505 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
- Concrete, Brick, Mortar (porous substrates)
- Marble & Granite
- Most Metals
- 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 505 Self-Leveling RTV Silicone is an excellent for use as a sealant and coating. Common applications include:

- Sealing and Waterproofing
- Horizontal Joints
- Coating Assemblies
- RV and Manufactured Housing Applications

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

FEATURES

- Acetoxy Cure RTV Silicone
- Excellent Unprimed Adhesion
- Resistant to UV Degradation And Weathering
- Low Viscosity, Self-Leveling
- One-Component, Moisture Curing
- Fast Skinning
- Withstands Temperatures Ranging From -70°F to 400°F

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	8 minutes (70°F, 50% RH)
Density	ASTM D1475	8.6 lbs./gal
Hardness	ASTM C661	30 (Shore A)
Extrusion Rate	ASI Test Method	N/A
Tensile Strength	ASTM D412	330 psi
Elongation at Break	ASTM D412	350%
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 505 suggested application temperature range: -30°F to 150°F. 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 505 INDUSTRIAL GRADE SELF-LEVELING SILICONE

COLORS

ASI 505 is available in clear. Additional colors can be available for purchase. Inquire to ASI sales staff for additional information.

PACKAGING

ASI 505 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 335 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 505 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 505 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.

LIMITATIONS

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and low humidity will slow curing. Do not use on porous surfaces such as concrete, mortar or brick. 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.



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