



174 HIGH PERFORMANCE SILICONIZED ACRYLIC LATEX

TECHNICAL DATA SHEET



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WATER TIGHT



SOLVENT-FREE



PAINTABLE

ASI 174 Siliconized Acrylic Latex is a high performance, paintable sealant used for sealing interior and exterior joints. ASI 174 Siliconized Acrylic Latex cures to form a strong, flexible water tight seal. ASI 174 is further modified with proprietary additives to optimize resistance to oxidation, UV degradation and cold temperatures. ASI 174 will also expand and contract with paint which allows it to be a painted using most latex and oil based paints.

COMMON APPLICATIONS:

ASI 174 Siliconized Acrylic Latex is an excellent sealant for many Commercial, Industrial and Construction applications. Common applications include:

- Bathroom Installation/Sealing
- Window and Door Interior Sealing
- General Sealing
- General Construction
- Portable Housing Interior Applications
- Countertops
- Trimwork
- Tub and Tile
- Cabinets
- Applications Where Painting is Required

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

FEATURES

- Mold & Mildew Resistant When Cured
- Non-Sag, Use On Vertical Or Overhead Joints
- Resistant to UV Degradation And Weathering
- Bonds To Most Common Building Materials
- Easy To Use, Water Clean Up
- Paintable
- Good Adhesion

CONFORMS, MEETS & EXCEEDS

- Clear: ASTM C834-05 Type C
- Clear: VOC Compliant
- White: ASTM C920, Class 12.5
- White: TT-S-00230C Class B
- White: VOC Compliant

COMMON BONDING SUBSTRATES:

ASI 174 Siliconized Acrylic Latex 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:

- Ceramics
- Glass
- Granite
- Marble
- Some Metals
- Most Woods
- Some Plastics
- Porcelain
- Porous Surfaces (Concrete, Brick, Etc.)

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.



Typical Properties White & Colors:

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	402,500 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	30 minutes (70°F, 50% RH)
Density	ASTM D1475	13.25 lbs./gal
Hardness	ASTM C661	40 (Shore A)
Percentage Solids	ASI Test Method	84 %
Elongation at Break	ASTM D412	400 %
Gun Grade	ASI Test Method	Pass (Non-Slump)
QUV Testing	ASTM G154	Pass (4,000 hrs)
Service Temperature*	ASI Test Method	-20 °F to 180°F

Paintable with latex paints 2 hrs. after application. Paintable with oil based paints 24 hrs. after application.

*Intermittent temperature up to 230°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.

Typical Properties Clear:

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	679,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	60 minutes (70°F, 50% RH)
Density	ASTM D1475	9 lbs./gal
Hardness	ASTM C661	50 (Shore A)
Percentage Solids	ASI Test Method	61 %
Elongation at Break	ASTM D412	600 %
Gun Grade	ASI Test Method	Pass (Non-Slump)
QUV Testing	ASTM G154	Pass (4,000 hrs)
Service Temperature*	ASI Test Method	-20 °F to 180°F

Clear applies white and will turn clear within approximately 2 weeks at normal curing conditions. Cooler temperatures & higher humidity will prolong drying.

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COLORS

ASI 174 Siliconized Acrylic Latex is available in white and clear. Additional colors can be purchased in batch volumes. Inquire to ASI sales staff for additional information.

PACKAGING

ASI 174 Siliconized Acrylic Latex is stocked in 10 oz. caulking cartridges. 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 174 Siliconized Acrylic Latex 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 174 is ready to use and requires no mixing or additives. Tooling, if necessary, should be done 10 minutes within application. Joints exceeding 1" in depth will require use of a foam joint filler. Masking tape can be used to help obtain a cleaner joint but should be removed within 40 minutes of application. Do not use when temperatures are below 40°F. Recommended application temperature is between 40°F to 90°F.

CLEAN UP

Wet sealant can be cleaned & removed with warm water. Dry sealant can be removed by abrading or scraping with aid from ASI 0240 Adhesive Remover & Cleaner. 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 174 Siliconized Acrylic Latex has a shelf-life of 12 months from date of shipment in cartridges, pails and drums. High temperature and high humidity can significantly reduce shelf-life. Protect product from freezing.

LIMITATIONS

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. Cold temperature and high humidity will slow curing (40°F and below will be most significant). ASI does not recommend using when temperatures are below 40°F. If you are unsure about your specific paint, test before application. Allow treated wood & asphalt to cure 6 months before application. Allow new concrete to cure 30 days before applying sealant. Do not use in applications below waterline. ASI 174 will pass 5 freeze thaw cycles without harm of product. Prevention of continual freezing and thawing is required to maintain quality.

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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