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American Sealants, Inc.
 "High Performance Silicones, Sealants, and Adhesives"

TECHNICAL DATA SHEET

ASI 12SK Hi-Flex Butyl Sealant

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 Or to buy this product

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Features

- Excellent Flexibility
- Paintable
- Resistant to UV Degradation & Weathering
- Good Adhesion Range
- Excellent Long-Term Physical Properties
- Non-Slump, Can Use On Overhead & Vertical Applications

Additional Features

- Non-Staining To Most Substrates
- Easy to Dispense And Tool At A Variety of Temperatures

Conforms, Meets & Exceeds

- TT-S-01657, Type 1
- Conforms To USDA Requirements For Non-Food Contact
- VOC Compliant (106 grams/liter ASTM D-3960)
- Meets Requirements of AAMA 808.3-05

Description

ASI 12SK Butyl Sealant is a one part, butyl based sealant that has been formulated to perform better than the average butyl by using synthetic fibers to allow more flexibility, better adhesion, and more versatility. ASI 12SK provides a long-term seal between all types of masonry, steel, aluminum, glass and other common construction/industrial materials. ASI 12SK Butyl Sealant shows excellent resistant to weathering, bubbling, cracking, and other performance issues usually seen with butyl sealants. ASI 12SK conforms with the requirements of Federal Specification TT-S-01657. It is also paintable when using most industrial and commercial paints.

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	1,200,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	120 minutes (70°F, 50% RH)
Density	ASTM D1475	12.02 lbs./gal
Hardness	ASTM C661	35 (Shore A)
Tenacity	TT-S-001657	Pass
Tensile Strength	ASTM D412	130 psi
Bubble Formation	TT-S-001657	Pass
Slump	TT-S-001657	Pass
Gun Grade	ASI Test Method	Pass (Non-Slump)
Service Temperature	ASI Test Method	-20°F to 180°F
Cure In Depth After 7 Days	ASI Test Method	8 mm (70°F, 50% RH)
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 12SK suggested application temperature range: 32°F to 150°F. ASI 12SK can be applied lower than 32°F. However, it will slow down the curing speed. In general lower temperature & humidity will slow skin and cure times.		


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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.



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Common Applications:

ASI 12SK is an excellent sealant/adhesive for many Commercial, Industrial and Construction applications. Such applications include:

- Glass Channel Glazing Panels
- Curtain Wall Joints
- Sealing Insulated Glass Units In Metal & Wood Frames
- Bedding Thresholds
- Secondary Glazing Seals
- Seal Around EPDM
- Masonry Applications
- General Industrial Applications
- General Construction Applications
- **Can be used for additional applications not listed. ASI recommends testing prior to use.**

Directions

ASI 12SK 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 alcohol or 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.

Colors

ASI 12SK is available in black, grey and white. Additional colors can be available for purchase. Inquire to ASI sales staff for additional information.

Packaging

ASI 12SK is stocked in 10.2 oz. caulking cartridges. Additional packaging may be available upon request. Inquire to ASI sales staff for additional information.

Caution/Safety

Please refer to the SDS for the corresponding product for information regarding safety and handling.

Limitations

Do not store at elevated temperatures. Use only on clean surfaces free of contaminants. We recommend testing for staining prior to application if not known. Test all paints before application. Allow treated wood & asphalt to cure 6 months before application.

Common Bonding Substrates:

ASI 12SK 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
- Aluminum & Galvanized Metal
- Steel
- Many Plastics
- Cement
- Painted Metal
- Wood
- EPDM
- Porous Surfaces (Concrete, Brick, Etc.)
- **Can be used on additional substrates not listed. ASI recommends testing prior to use.**

Surface Preparation

All surfaces should be clean and dry. Alcohol can be used to clean the surface. DO NOT USE petroleum based solvents. Priming for ASI 12SK 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.

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 12SK has a shelf-life of 12 months in cartridges. When stored at 70°F and 50% RH, ASI 12SK has shelf-life of 6 months in pails and drums. High temperature and high humidity can significantly reduce shelf-life.

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.