

ASI 52AB FLUID APPLIED AIR BARRIER



52AB Fluid Applied Air Barrier is formulated using advanced silyl-terminated polyether (STPE) technology to provide a durable, seamless air and moisture barrier. This single-component, moisture-cure elastomeric membrane helps protect structures from uncontrolled air movement and water intrusion while delivering excellent UV resistance and long-term weatherability. ASI 52AB can be applied to damp or wet substrates without bubbling and remains in place when rain is anticipated, unlike many conventional water-based coatings. Its 100% solids formulation eliminates shrinkage and cracking while helping seal fastener penetrations, joints, and minor substrate imperfections. ASI 52AB adheres to a wide variety of construction materials and is compatible with many common adhesives and sealants.

Features:

- Bonds To Wet Substrates
- 100% Solids, Will Not Shrink or Crack
- Resistant to UV Degradation & Weathering
- Excellent, Broad Adhesion Range
- Water Resistant Prior To Cure, Will Not Deteriorate Or Wash off
- Excellent Physical Properties
- Prevents Moisture Transmission
- Contains No Solvents, Phalates or Isocyanates Which Makes ASI 52AB VOC Compliant
- Excellent Unprimed Adhesion To Various Substrates
- Breathable, Allows Damp Surfaces To Dry
- Excellent Perm Rating
- Low Odor, Eco-Friendly Formulation
- Phalate Free Formulation

Advantages Over Other Technologies

- Typical acrylic systems are water based and shrink, wash out with water & have limitations on applications.
- Bitumen-based systems lack overall performance in comparison.
- Solvent based chemistries shrink when the solvent leaves the system.
- Health concerns with other technologies.

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	40,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	60 minutes (70°F, 50% RH)
Density	ASTM D1475	12.4 lbs./gal
Hardness	ASTM C661	25 (Shore A)
Modulus 100%	ASTM D412	0.50 MPa
Tensile Strength	ASTM D412	122 psi
Elongation at Break	ASTM D412	500%
Water Vapor Transmission	ASTM E96	20 Perms (25 mil)
Gun Grade	ASI Test Method	Coating (low viscosity)
QUV Testing	ASTM G26	Pass (4,000 hrs)
Service Temperature	ASI Test Method	-50°F to 220°F
Cure In Depth After 7 Days	ASI Test Method	11 mm (70°F, 50%RH)

*Intermittent temperature up to 270°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 52AB suggested application temperature range: 32°F to 150°F. ASI 52AB 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. 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.



NO SHRINK/CRACK



PAINTABLE



WATER TIGHT

Conforms, Meets & Exceeds:

- Conforms to California Proposition 65
- Conforms to USDA Requirements For Non-Food Contact
- Meets Requirements of CARB & SCAQMD
- VOC Compliant (16 grams/liter ASTM D2369)

Installation

ASI 52AB may be applied using approved spray equipment or with a standard 1/4" to 3/8" roller, depending on the project requirements and application area. Do not dilute or alter the material. Use a joint sealant or similar product for large crevices where required. When roller applying, a slightly diagonal vertical stroke will provide the best coverage. For spray applications, contact ASI Technical Support for recommended equipment configurations, hose setup recommendations, and application guidance specific to your project. Coverage rates will vary based on substrate type and porosity. Some porous substrates may require multiple coats to achieve complete coverage. After application, inspect the membrane to verify there are no voids, pinholes, or uncoated areas.

Once exposed to air, ASI 52AB will skin over in approximately 60 minutes. Higher temperatures and humidity will accelerate skin and cure times, while lower temperatures and humidity will extend them. Temperatures below 32°F will significantly affect skin formation and curing speed. Do not apply when substrate temperatures exceed 150°F.



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Coverage Rates

Coverage rates will vary based on the application method, substrate type, substrate porosity, and applied film thickness. Porous substrates such as gypsum sheathing products, OSB, concrete, and masonry may require multiple coats to achieve complete coverage. Whether applied by spray or roller, the coating should be installed at a recommended thickness of 12-25 mils, depending on the application and substrate requirements.

After application, inspect the membrane to ensure complete, continuous coverage with no visible pinholes, voids, or leak paths. Typical coverage is approximately 50-100 square feet per gallon depending on the substrate, surface profile, application method, and final film thickness. For spray equipment recommendations, hose configurations, and application setup guidance, contact ASI Technical Support.

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.

Packaging

ASI 52AB can be packaged into caulking cartridges, sausage packs, pails and drums. Inquire to ASI sales staff for additional information.

Colors

ASI 52AB is standard in white. Colors made to order. Colors are purchased in batch volumes. 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, dry surfaces free of contaminants. Cold temperature and low humidity will slow curing (32°F and below will be most significant). Do not use on olefins such as polyethylene, polypropylene or TPO prior to testing. Test all paints before application. Allow treated wood & asphalt to cure 6 months before application. Concrete must be clean and free of curing compounds and release agents prior to application. Long-term submersion under water can cause loss of adhesion on some substrates.

Pail & Drum Use

Open the pail/liner and remove the foil cover. Remove any cured pieces prior to use. In-between uses or pours recover with foil liner to limit the contact with air & moisture. ASI 52AB will begin to react and start curing upon contact with the atmosphere. Always keep container sealed and upright. Do not pour or open until you are ready to apply. Dispose of unused product and container in accordance with local, state and federal regulations.

Packaging

ASI 52AB can be packaged into caulking cartridges, sausage packs, pails and drums. Inquire to ASI sales staff for additional information.

Surface Preparation

All surfaces should be clean. Isopropyl Alcohol can be used to clean the surface. DO NOT USE petroleum based solvents. Priming for ASI 52AB 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. Always replicate substrate, procedure and environmental conditions. Allow 7 days for maximum strength to develop before testing adhesion or strength.

Storage

Product must be stored upright. Do not double stack pallets or containers. When stored at 70°F and 50% RH, ASI 52AB has a shelf-life of 12 months in cartridges from the date of manufacture. When stored at 70°F and 50% RH, ASI 52AB has shelf-life of 6 months in pails and drums from the date of manufacture. 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.



TDS ASI 52AB 100126



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