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Ph: 800-474-7570, 602-272-8128 Fax: 602-272-8014
www.BestMaterials.com Email: Sales@BestMaterials.com

American Sealants, Inc.

"High Performance Silicones, Sealants, and Adhesives"

ASI 5900 FAST GRAB ADHESIVE

PRODUCT DATA SHEET

OEM Industrial and Construction Product

Features:

- High Performance, Elastomeric Adhesive/Sealant
- Fast Cure, Hybrid Formulation
- Fixtures Fast, Strong Bond
- Fast Grab, High Green Strength
- Will Not Shrink or Crack
- Bonds to a Variety of Common Substrates
- Can be Applied on Vertical or Overhead Surfaces

Additional Benefits:

- Contains No Solvents or Isocyanates which makes ASI 5900 VOC Compliant
- Easy to Dispense and work with at a Variety of Temperatures
- Withstands a wide range of high heat and extreme cold
- Moisture Cure Adhesive

Description:

ASI 5900 Fast Grab Adhesive is a one-part, moisture cure hybrid material. ASI 5900 has been formulated for use in both construction and industrial applications that require speed, strength and fast fixturing. ASI 5900 has excellent fixturing properties and requires minimal support while green strength develops. ASI 5900 is a non-slump sealant and can be applied to vertical or overhead surfaces without flowing or sagging. ASI 5900 achieves over 50 psi or about 3000 lbs. per linear foot of bond area. Unlike many construction adhesives ASI 5900 contains no solvents and is made of 100% solids. Because of its rapid polymerization, ASI 5900 should be assembled within 15 minutes of applying the bead to prevent skinning over of the adhesive surface.

Common Applications:

ASI 5900 is an excellent sealant and/ or adhesive for many Commercial, Industrial, and Construction applications where a quick fixturing, strong bond is desired. Such applications include:

- OEM Applications (depending on substrates)
- Shower Panels and Installation
- Roof Framing in RV's
- Trailer Construction
- General Construction
- General Industrial Applications
- Portable Housing Applications
- Assembling Fiberglass Panels
- Roofing Construction
- Vertical Side Wall Applications
- Manufacturing and Assembly
- Subfloor Applications
- Window and Door Installs
- Etc. (Can be used for various applications depending upon substrate)

Common Bonding Substrates:

ASI 5900 can be used on a variety of substrates that are not listed below. Please inquire or test on those substrates. We have listed some common substrates for your viewing:

- Aluminum
- Ceramics
- Painted Surfaces
- Glass
- Granite
- Marble
- Metals
- Most Woods
- Fiberglass
- EPS or Styrofoam Insulation
- Porcelain
- PVC
- Drywall
- Porous Surfaces (Concrete, Brick, Etc.)
- Etc. (substrates may vary depending upon application)



Directions:

ASI 5900 is ready to use and requires no mixing or additives. Higher humidity and temperature accelerates cure. Low humidity or low temperature will slow cure time. Ideal temperatures range from 60°F to 100°F. Bond can be set or fixtured with nails, screws, staples, braces, etc. until strength develops. ASI 5900 will not shrink and can be used to fill joints and voids. 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. Test all substrates and applications for strength and compatibility.

Listed Properties:

Tack Free Time	30 +/- 5 min	ASTM C679
Sag	Non Sagging, Thixotropic	ASI TEST METHOD
Shear Strength	200 psi	ASTM D1002
Viscosity	1,400,000 cps	ASI TEST METHOD
Service Temperature	-20°F to 200°F	ASI TEST METHOD
Density	11.8 +/- 0.2 lbs per gallon	ASTM D1475
Shrinkage	None Visible	ASI TEST METHOD

Strength Development Table		
Hours	Days	Peak Stress PSI
1	0.04	40.5
3	0.13	128.5
5	0.21	155.7
7	0.29	181
24	1	209
	7	223

Limitations:

Do not store in elevated temperatures. Use only on clean, dry surfaces free of contaminants. Do not use at temperatures below 32°F. Cold temperature and low humidity will slow curing. Do not use if rain or moisture will be present within 4 hours of application. Do not use on olefins such as polyethylene, polypropylene or TPO. Do not use as an external adhesive in areas exposed to ultra-violet light. Test all paints before application. Allow treated wood to cure 6 months before application. Remove all coatings and Sealers before application.

Warranty Limitations:

ASI warrants only that its products will meet its specifications. ASI shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, ASI's liability, expressed or implied is limited to the stated selling price of any defective goods.

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.

Surface Preparation:

All surfaces should be clean and dry. Priming for ASI 5900 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.

Storage:

ASI 5900, when stored in original, unopened container at 70°F with 50% relative humidity, has a shelf life of 12 months from date of manufacture. High temperatures and relative humidity will reduce shelf life. Store in a cool, dry environment.

Colors:

ASI 5900 is standardly available in white. Other colors available upon request.

Packaging:

ASI 5900 is supplied in:
Private Label, 20 oz. sausages and (55 gal) drums. Special Packaging Available upon requests.

Safety Precautions:

Use with adequate ventilation. Inhalation of vapors during application and cure may cause slight eye or throat irritation. In case of contact with eyes, lips or mouth, flush thoroughly with water. If irritation persists, consult a physician. Avoid repeated, prolonged contact with skin. See MSDS for additional information. Keep out of reach of children.

Conforms, Meets and Exceeds:

Conforms to OTC Rule for Adhesive
Meets requirements of California Regs: CARB and SCAQMD
Conforms to California Proposition 65
Conforms to USDA Requirements for Non-Food Contact
VOC Content: less than 14 grams/ liter ASTM D2369 EPA Method 24