

SIMALFA 308FR

Product Description

Simalfa 308FR was designed specifically for the aerospace industry where the need for specialty flame retardant products are required.

This adhesive is designed to meet the requirements of FAA - 14 CFR 25.853 (a) appendix F Part 1, (a)(1)(ii). Simalfa 308FR is a one-part, water based adhesive that bonds instantly. It is simple to use, offers speed for increased profitability, and conforms to the many changing environmental regulations.

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Features and Benefits

Flame Retardant.....	Compliance
Solvent Free	100% waterborne system
One Sided Application	Save valuable time in your production process
Bonds Instantly.....	Increase productivity and boost profits
Friendly to Equipment	Maintenance free
One Part System	A simple, trouble free application. Free Flowing System TM
High Solids	Excellent mileage
Heat Resistant	Superior bond quality at elevated temperatures
Versatile Adhesion.....	Bond to a wide variety of substrates
Consistent	Reliable performance

Physical Properties

Composition:	Dispersion of antimony pentoxide (Flame Retardant), acrylic resin, and synthetic rubber in water.
Color:	Red or custom
Odor:	Slight
Solids Content:	48%
Specific Gravity:	1.06 g/cm ³ at 68°F (20°C)
Particle Size:	140 Micron
pH Value 73°F (23°C)	8.0 – 9.2
Viscosity Brookfield.....	Approximate 1100 cP
Break Elongation:	600%
Heat Resistance:	176°F – 194°F (80°C – 90°C)
Boiling Point:	212°F (100°C)
Freezing Point:	32°F (0°C)
Storage and Handling:	Minimum 40°F (5°C) and maximum 104°F (40°C). Store in a dry place. Keep tightly closed to prevent loss of moisture.
Shelf Life:	6 months in unopened container.
Cleaning:	Washable with water.



SIMALFA[®]

Available Container Sizes

Simalfa is available in 5, 110, and 250 gallon containers (20, 440, and 1000 kg containers).

For additional container size information, visit the web at: www.simalfa.com/Techinfo/Container.htm

Surface Preparation

Surfaces must be clean, dry and dust free. Any petroleum based product such as oil or grease can prevent suitable bonding.

Application

Never agitate or mix before using. Simalfa can be applied to both surfaces with a spray gun. However, in many instances, single sided application is the preferred method. Spray guns should be adjusted to give a paint-like spray pattern. Hold the spray gun between 6" - 12" (15cm - 25cm) from the surface and be sure to overlap the pattern slightly with each pass to ensure uniform coverage.

Coverage

Coverage will vary depending on the porosity of substrates and strength of adhesive bond desired. Typical users will cover up to 1000 square feet per gallon. In all cases, user evaluation will be required to determine the optimum coverage levels for their application.

Assembly and Bonding Time

Simalfa bonds immediately after spraying. Users can reposition the substrates, to maximize the quality of their product, without re-spraying. Pressure may be applied via manual or mechanical methods to enhance the initial bond. In addition, the user can place the substrates together up to 20 minutes after spraying if required by their production process. After 20 minutes the adhesive may dry and the final adhesion can suffer, or a pseudo-adhesion could take place.

The final bond is achieved once the residual water has evaporated. Although water evaporation happens quickly, it is recommended users wait 24 hours before performing any final bond testing.

Application Method and Equipment

SIMALFA is best dispensed via our patented Free Flowing gravity delivery system and applied with our high volume low-pressure (HVLP) spray guns. Other spray gun manufacturers may also have suitable application equipment. To find out if your spray gun works with Simalfa, just contact us, we can help.

We can supply all the necessary design, engineering and equipment to properly install and use SIMALFA.

Application Methods: Manual spray, Automatic spray, Roll, or Brush

Spray Gun: SIMALFA HVLP

Nozzle Size: 2.5 mm

Method of Dispensing: Free Flowing System (Patent#: 5868319) or pressure container.
Pumping is not recommended

Other Information: All parts coming in contact with adhesive must be made of stainless steel or plastic. Definitely NO colored metals such as aluminum, steel, brass, etc.

Cleaning of Equipment: Use water only. Never use solvents of any type.
DO NOT SUBMERGE SPRAY GUN IN WATER

Cleanup

In some cases wet adhesive may be removed with water. Dry adhesive cannot be removed from porous substrates such as foams or fabrics. It is recommended that users prevent adhesive from getting on surfaces where it's not wanted.



Precautionary Information

Please refer to the Material Safety Data Sheet and Product Label for Health and Safety Information before using Simalfa.

For Additional Information

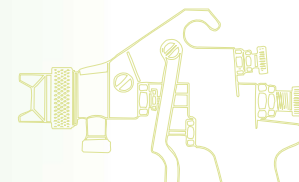
To request further information visit our website at WWW.SIMALFA.COM, contact us via telephone at (973)423-9266, or mail us at SIMALFA, 15 Lincoln Street, Hawthorne NJ 07506 USA.

To arrange an on-site demonstration please contact us at (973)423-9266 immediately.

Important Notice

This information is accurate to the best of Alfa Adhesives, Inc.'s knowledge, or obtained from sources believed by Alfa Adhesives, Inc. to be accurate. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of this product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alfa Adhesives, Inc. hereunder are given gratis and Alfa Adhesives, Inc. assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.





SIMALFA 308FR

1. Chemical Product and Company Information

Trade Name: SIMALFA® 308FR
Product Use: Flame Retardant water-borne adhesive for bonding foams and/or fabrics.
This adhesive is designed to meet the requirements of FAA-14 CFR 25.853 (a) appendix F Part 1, (a)(1)(ii).
Composition: Dispersion of antimony pentoxide (Flame Retardant), acrylic resin, and synthetic rubber in water.
Company: Alfa Adhesives, Inc. 15 Lincoln Street, Hawthorne, NJ 07506 USA
Telephone: (973)423-9266 Fax: (973)423-9264

2. Composition / Information on Ingredients

Chemical Name	CAS#	Amount	Exposure Limits
Water	7732-18-5	46%	None
Antimony Pentoxide	1314-60-9	2.9-4.1%	0.5mg/M3 (Antimony)
Proprietary Mixture	n/a	44-45%	None

3. Hazards Identification

Eye: Possible Irritant
Skin: Possible irritation, drying or cracking of skin due to drying effect.
Ingestion: Gastrointestinal effects such as vomiting and diarrhea are possible after ingesting.
Inhalation: Possible upper airway inflammation
Known Synergists: None Known
Explosion Hazard: None Known
Fire Hazard: None Known
Corrosion Hazard: None Known

4. First Aid Measures

Eye Contact: Rinse with water for 15 minutes with lids spread. For continued irritations, contact a physician.
Skin Contact: Wash with soap and water. Remove contaminated clothes.
Ingestion: If swallowed, dilute with water and consult a physician.
Effects of Overexposure: None known. For continued irritations, contact a physician.

5. Fire and Explosion Hazard Data

Flash Point: None
Ignition Point: None known
Extinguishing Media: Water, carbon dioxide, or dry chemical
Special Firefighting Procedures: None known
Unusual Fire & Explosion Hazards: . None known





6. Accidental Release Measures

Spill or Leak: Pump large quantities into containers; use sand to soak up remainder or use absorbing material like diatomaceous earth according to regulations. For smaller quantities clean up with water.

Personal Protection: Eye protection and gloves recommended.

7. Handling and Storage

Storage and Handling: Minimum 40°F (5°C) and maximum 104°F (40°C). Store in a dry place. Keep tightly closed to prevent loss of moisture. DO NOT FREEZE

Shelf Life..... 6 months in unopened container.

8. Exposure Controls / Personal Protection

Respiratory: Not generally required during normal use and handling. The need for respiratory protection should be evaluated if this material is sprayed in poorly ventilated areas.

Ventilation:..... General ventilation is recommended during normal use. Local ventilation may be required during certain operations.

Protective gloves: Not required. Wash hands thoroughly.

Eye protection: Wear face shield, safety glasses or approved goggles.

Other equipment: Wear protective clothing. Eye wash station should be available.

9. Physical Properties

Physical Form: Liquid

Color: Red or custom

Odor:..... Slight

Solids Content: 48%

Specific Gravity: 1.06 g/cm³ at 68°F (20°C) DIN 51757

Particle Size: Approx 140 Micron

pH Value 73°F (23°C) 8.0-9.2

Viscosity: Approx. 1100 cP (Brookfield: spindle 3, 20rpm)

Break Elongation: Approx 600%

Heat Resistance: 176°F-194°F (80°C-90°C)

Boiling Point: 212°F (100°C)

Freezing Point: 32°F (0°C)

10. Stability and Reactivity

Conditions to Avoid: Keep from freezing

Incompatibility None known

Thermal Decomposition: None

Corrosive Properties..... Not corrosive

Oxidizer Properties Not an oxidizer

Other Reactivity Data..... None known



11. Toxicological Information

Antimony Pentoxide..... LD50, Rat, Oral: > 4123mg/kg

Effects

- Eye: No published data available
- Skin: No published data available
- Inhalation: Published reports claim respiratory irritation for mixed antimony compounds.
- Ingestion: Published reports claim gastrointestinal effects such as vomiting and diarrhea after ingesting antimony compounds.

12. Ecological Information

- General..... This material is not regulated by RCRA or CERCLA "Super fund"
- Toxicity Data If Simalfa is applied properly no detrimental effect has become known. During long-lasting influence on skin and mucous membranes, irritations are possible.
- Ecology Data Simalfa may not come in waters without having been pre-treated. Simalfa will be eliminated from the water since it is absorbed by the sewage sludge. If small concentrations are piped into biological sewage treatment plants no failure of the degradation process are to be expected.

13. Disposal Considerations

- Disposal: Care should be taken to ensure that material or its containers are disposed of in an approved facility in accordance with current federal, state and local regulations.

14. Transportation Information

- DOT Shipping Name: Not regulated by DOT
- UN Number..... None
- DOT Hazard Class..... None
- DOT Labels Required: None

15. Regulatory Information

US Federal Regulations

- EPA TSCA Inventory..... All ingredients listed
- SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:
Antimony Pentoxide, CAS# 1314-60-9, % By Weight = 2.9-4.1
- US DOT Regulations: See Section 14

US State Regulations

- California Proposition 65:..... Based on OSHA Exposure limits for antimony the following label is required:
"This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: Lead"
- State Right-to-Know Laws: See Section 2

Canadian Regulations

- Domestic Substance List: All ingredients listed
- WHMIS
- Transport of dangerous goods: Not applicable

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16. Other Information

Hazard Ratings	Health	Fire	Reactivity	Special
HMIS	1	0	0	NA

Workers using Simalfa 308FR should read and understand this MSDS and be trained in the proper use of this material.

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