



# Ultra NT for SCIFs

## RF SHIELDING (PERFORATED)

### SKUs:

EF1800-48-125SCIF-PERF

### Application Summary:

RF shielding in SCIF rooms, data storage, corporate, government, and military applications



### Contact Us

888.349.3645

customerservice@ecofoil.com

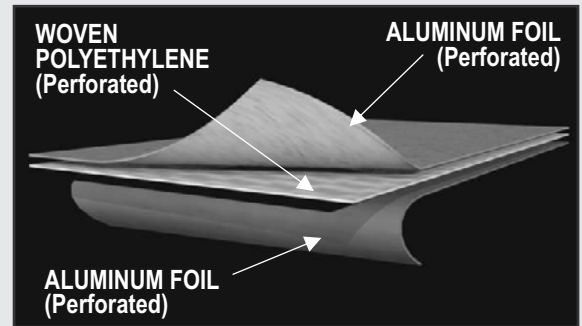


**Product Description:**

Page 1 of 2

rFOIL® Ultra NT Radiant Barrier is a heavy duty radiant barrier sheet made up of a single layer of woven polyethylene material bonded to and sandwiched between two highly reflective aluminum foil surfaces.

Ultra NT Radiant Barrier is designed to be used in Sensitive Compartmented Information Facilities (SCIF's). In addition to being a highly effective radiant barrier, Ultra NT Perforated also provides excellent breathability.



**Features:**

- **Minimum Shielding Effectiveness (100MHz – 10GHz): 67 dB**
- Highly reflective radiant barrier aluminum foil surface
- Reflects 97% of Radiant Heat
- Thermal performance unaffected by moisture
- Unrolls and cuts easily
- Durable and flexible woven polyethylene base
- Increases sound attenuation for SCIF's

**Applications:**

- Sensitive Compartmented Information Facilities (SCIF's)

**Stock Roll Sizes:**

|                 |                         |
|-----------------|-------------------------|
| <b>Size:</b>    | 48" x 125' (Perforated) |
| <b>Part No.</b> | EF1800-48-125SCIF-PERF  |

**(PERFORATED)  
product**

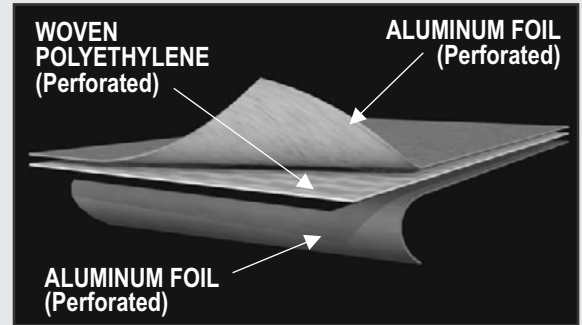


| PHYSICAL PROPERTIES                 | TEST           | VALUE                                   |
|-------------------------------------|----------------|---|
| EMISSION                            | ASTM C1371-04A | 0.03                                    |
| REFLECTIVITY                        | —              | 0.97                                    |
| CORROSIVENESS                       | ASTM D3310-00  | PASSES                                  |
| FIRE RATING                         | ASTM E84-10    | CLASS 1 / CLASS A                       |
|                                     | ASTM E84-10    | FLAME SPREAD = 0 / SMOKE DEVELOPED = 20 |
| BLEEDING and DELAMINATION           | ASTM C1224-03  | NO BLEEDING or DELAMINATION             |
| PLIABILITY                          | ASTM C1224-03  | NO CRACKING                             |
| WATER VAPOR PERMEABILITY            | ASTM E96-05    | 2.69 Perms                              |
| RESISTANCE TO FUNGI                 | ASTM C1338-08  | PASSES                                  |
| TENSILE STRENGTH<br>TEAR RESISTANCE | ASTM D2261     | LENGTH: 14.93 lbs                       |
|                                     |                | WIDTH: 15.13 lbs                        |
| SHIELDING EFFECTIVENESS             | IEEE-299-2006  | (100Mhz - 10GHz) : 67 dB                |

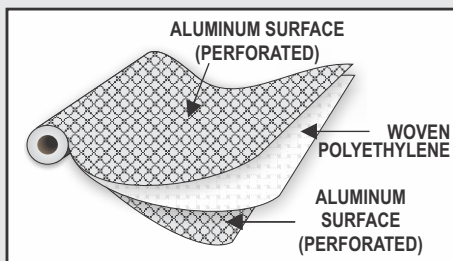
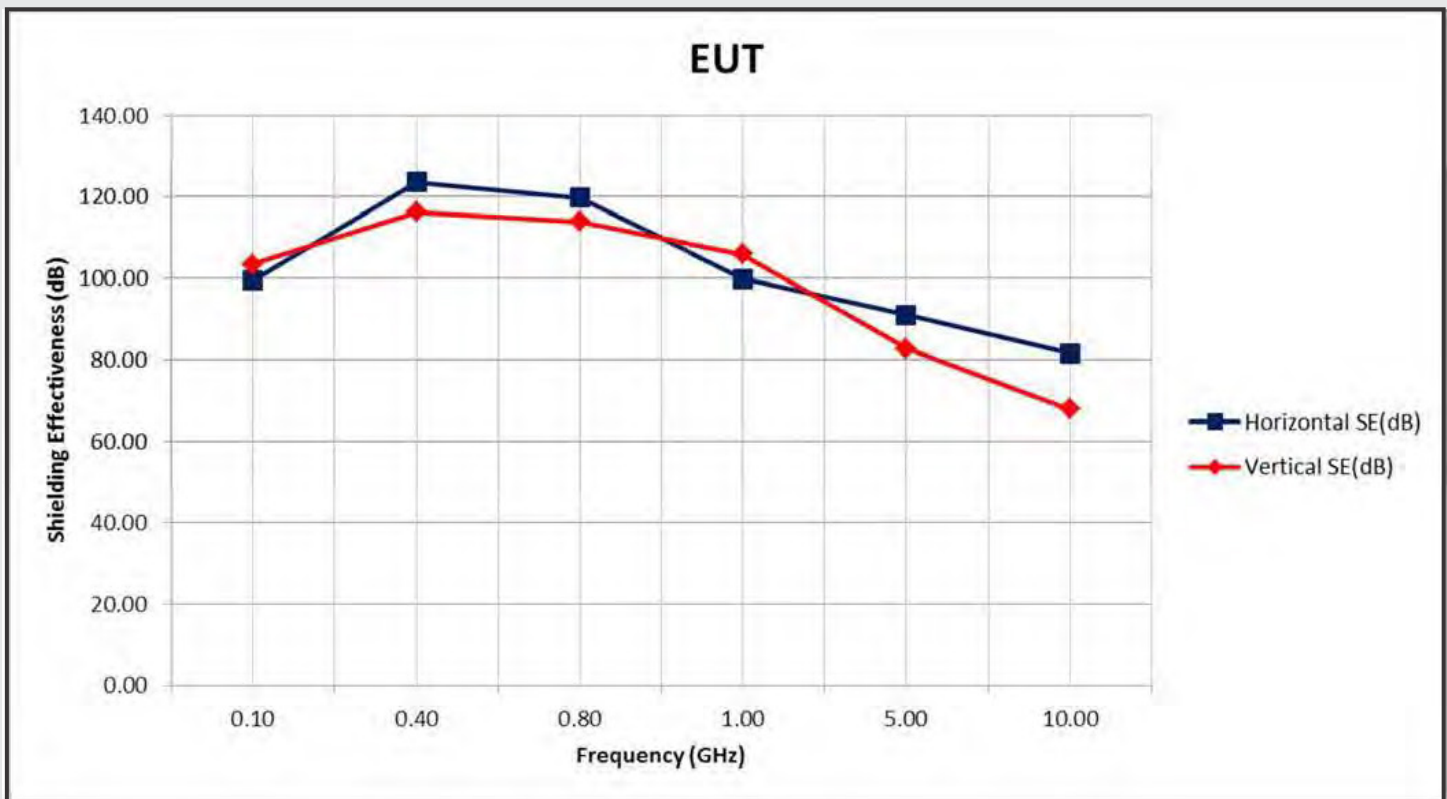


Application Notes:

The Architectural Specifications for any particular job shall override the information presented on this Technical Data Sheet with regards to the appropriate products to use and the appropriate installation method to use for that particular job.



**Shielding Effectiveness - Test Standard IEEE-299 / ASTM D4935**  
Test results for Ultra NT Radiant Barrier 1800-48-125P **(PERFORATED product)**



**(PERFORATED)**



## INSULATION TAPE

### Product Description:

EcoFoil® Insulation Tapes are available in four varieties: Aluminum, Aluminum Conductive, White Polyethylene and Metalized Foil. All EcoFoil tapes provide an excellent vapor barrier seal and are specifically designed for use with all EcoFoil® Insulation Products.

Acrylic pressure sensitive adhesive combines superior quick-stick at normal temperatures, with excellent low temperature performance below freezing.

These tapes can help maintain a complete seal in radiant barrier systems and are resistant to moisture, flame spread and smoke generation. High temperature resistance makes EcoFoil® tapes ideal for use in heat repelling application.



### Available Configurations:

EcoFoil® Adhesive Tapes are available with a metalized polyester, premium metalized polyester, aluminum, conductive aluminum, or a durable white poly surface. The acrylic adhesive was specially formulated for excellent performance at sub-freezing temperatures, without compromising ease of application.

### Features:

- Pressure-sensitive acrylic adhesive forms a bond that strengthens with time
- Maintain a continuous vapor barrier and constant insulator
- In exposed application, EcoFoil® tapes help create a seamless finish to interior walls and ceiling

## PRODUCT SPECIFICATIONS

| Product Code Item Numbers and Sizes: | EF15073<br>3" x 180'    | EF15113<br>3" x 150'   | EF15513<br>3" x 150' | EF11702<br>2" x 54'                     | EF15853<br>3" x 150'       |
|--------------------------------------|-------------------------|------------------------|----------------------|---|----------------------------|
| Physical Properties                  | STANDARD METALIZED FOIL | PREMIUM METALIZED FOIL | ALUMINUM FOIL        | ALUMINUM CONDUCTIVE FOIL                | WHITE POLY                 |
| THICKNESS                            | 3.0 MILS (0.003")       | 3.2 MILS (0.0032")     | 3.15 MILS (0.00315") | 3.0 +/- 0.1 mils                        | 2.0 MILS (0.002")          |
| PEEL ADHESION                        | 30 oz. / in.            | 60 oz. / in.           | 54 oz. / in. width   | 25 oz/in (2.7 N/cm)                     | 22.0 oz. / in.             |
| BACKING                              | Polypropylene (BOPP)    | Polypropylene (BOPP)   | Aluminum Foil        | Aluminum Shielding Effectiveness (69dB) | White Polypropylene (BOPP) |
| ELONGATION                           | 130%                    | 130%                   | 3%                   | 5%                                      | —                          |
| TENSILE STRENGTH                     | 20 lbs. / in.           | 20 lbs. / in.          | 20 lbs. / in.        | 14 lb/in (25 N/cm)                      | 20 lbs. / in.              |
| TEMPERATURE RESISTANCE               | -40°C to 85°C           | -40°C to 85°C          | -35° to 248°F        | -40°C to 130°C                          | -30°C to 120°C             |
| ADHESIVE                             | Acrylic                 | Acrylic                | Acrylic              | Electrically Conductive Acrylic         | Acrylic                    |
| FIRE CLASSIFICATION                  | UL723                   | —                      | UL723                | UL510                                   | —                          |

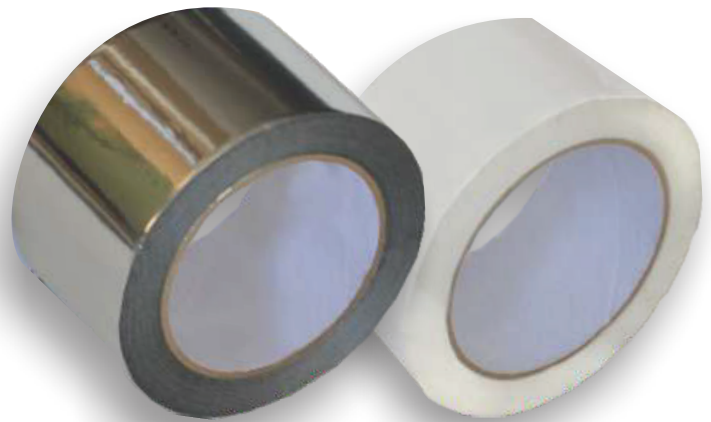


## INSULATION TAPE

### APPLICATION INSTRUCTIONS:

1. The surface to which the tape is to be applied must be free of oils, dust, and dirt. The surface must be cleaned with a dry cloth.

2. The release liner should then be removed 1-2 feet at a time (if applicable) and the adhesive face pressed firmly on the insulation facing. Care should be taken not to stretch the tape tightly as this will create buckles and voids in the contact area on both sides of the joint for the tape to bond. Uneven width distribution also puts additional shear stress on the smaller side of the butt joint.



3. The tape should then be wiped firmly from the center out (like wallpaper) with a plastic wiping tool (enclosed with a full carton). Note: To obtain a greater bond, apply more pressure to the tape surface.

4. Be sure to cut the end of the tape to the appropriate length.

### IMPORTANT INFORMATION

The information cited is in good faith and has been established from sources held to be secure and reliable. The values listed are typical properties and are not intended to be used as specifications for defined applications. User must determine the product for suitability for the end use application and assume all risks and liabilities.



# MSDS Sheets

## Contact Us

888.349.3645

[customerservice@ecofoil.com](mailto:customerservice@ecofoil.com)







# MATERIAL SAFETY DATA SHEET

## 1800P SERIES NT RADIANT BARRIER (PERFORATED)

Designed for (SCIF's) Sensitive Compartmental Information Facilities  
(Aluminum Foil / Woven Poly / Aluminum Foil)

March 2021

### SECTION 1: PRODUCT IDENTIFICATION

NAME: rFOIL® 1800P SERIES NT RADIANT BARRIER (for SCIF's)  
DESCRIPTION: PERFORATED ALUMINUM RADIANT BARRIER FOR SCIF's  
MANUFACTURER: COVERTECH FLEXIBLE PACKAGING INC.  
ADDRESS: 279 HUMBERLINE DRIVE ETOBICOKE, ONTARIO, CANADA M9W 5T6  
TELEPHONE: 800-837-8961 or 888-887-3645 FAX: 416-798-1342

### SECTION 2: HAZARDOUS INGREDIENTS

THESE PRODUCTS ARE NOT CONSIDERED TO BE HAZARDOUS, AND ARE NOT CLASSIFIED AS 'CONTROLLED PRODUCTS'. THEY ARE COMPRISED PRINCIPALLY OF POLYETHYLENE AND ALUMINUM FOIL THAT ARE NON HAZARDOUS.

### SECTION 3: PHYSICAL DATA

BOILING POINT: NOT APPLICABLE  
TEMPERATURE RANGE: -50°F TO 180°F  
WATER VAPOUR PERM: 2.69 PERMS  
APPEARANCE: FLEXIBLE SHEET  
ODOR: NONE



### SECTION 4: FIRE and EXPLOSION DATA

FLAME SPREAD: 0 (ASTM E84-10)  
SMOKE DEVELOPMENT: 20 (ASTM E84-10)  
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, WATER OR FOAM  
USUAL FIRE HAZARDS: ALUMINUM FOIL MATERIALS ARE NOT HIGHLY FLAMMABLE, BUT IN CONTACT WITH FLAME THEY WILL MELT AND BURN.

### SECTION 5: REACTIVITY DATA

STABILITY: PRODUCTS ARE STABLE AND INERT TO MOST CHEMICALS. NONE CAUSE A VIOLENT REACTION.  
INCOMPATIBILITY: CONSULT WITH MANUFACTURER PRIOR TO USING AS A CONTAINMENT OR BARRIER FOR CHEMICALS OTHER THAN WATER.

### SECTION 6: HEALTH HAZARD DATA

INHALATION: NONE  
EYES & SKIN: NONE  
INGESTION: PRODUCTS SHOULD NOT BE EATEN OR KEPT IN CONTACT WITH FOOD

### SECTION 7: HEALTH HAZARD DATA

GENERALLY THE PRODUCTS REQUIRE NO SPECIAL PRECAUTIONS WHEN HANDLING, HOWEVER THE PRODUCTS MAY BECOME SLIPPERY WHEN WET, AND CARE SHOULD BE TAKEN WHEN WALKING ON THIS.

NOTE: THE INFORMATION CONTAINED IN THIS SHEET IS DISCLOSED IN GOOD FAITH AND IS PROVIDED TO THE BEST KNOWLEDGE OF THE MANUFACTURER. NEVERTHELESS IT IS NOT A WARRANTY AND COVERTECH FLEXIBLE PACKAGING INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED FROM THE USE OR INABILITY TO USE THE PRODUCT.

MATERIAL SAFETY DATA



279 Humberline Drive Etobicoke, ON M9W 5T6  
Toll Free: 1-800-837-8961 Local: 416-798-1340  
Email: sales@rfoil.com Website: www.rfoil.com

Published: April 15, 2022







## Article Information Sheet

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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 16-2384-2 | <b>Version Number:</b>  | 1.03     |
| <b>Issue Date:</b>     | 04/30/21  | <b>Supersedes Date:</b> | 05/28/19 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Aluminum Foil Tape 1115, 1115B, 1120, 1170, 1267

#### Product Identification Numbers

80-6112-1600-5  
7000006181

#### 1.2. Recommended use and restrictions on use

##### Recommended use

EMI shielding tape for electronic devices

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Electrical Markets Division             |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 3: Composition/information on ingredients

| Ingredient    | C.A.S. No. | % by Wt |
|---------------|------------|---------|
| ALUMINUM FOIL | 7429-90-5  | 80 - 90 |



|                              |               |         |
|------------------------------|---------------|---------|
| Acrylic Adhesive             | Trade Secret* | 10 - 20 |
| silver-coated inert particle | Trade Secret* | <= 1    |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

No need for first aid is anticipated.

#### Skin Contact:

No need for first aid is anticipated.

#### Eye Contact:

No need for first aid is anticipated.

#### If Swallowed:

No need for first aid is anticipated.

## SECTION 5: Fire-fighting measures

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

### 6.2. Environmental precautions

Not applicable.

### 6.3. Methods and material for containment and cleaning up

Not applicable.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties****Appearance**

Physical state

Solid

Color

Gray, Silver

**Specific Physical Form:**

Roll of Tape

**Odor**

Slight Odor

**Odor threshold***Not Applicable***pH***Not Applicable***Melting point**

660 °C [Details: for aluminum foil]

**Boiling Point***Not Applicable***Flash Point***Not Applicable***Evaporation rate***Not Applicable***Flammability (solid, gas)**

Not Classified

**Flammable Limits(LEL)***Not Applicable***Flammable Limits(UEL)***Not Applicable***Vapor Pressure***Not Applicable***Vapor Density***Not Applicable***Density***No Data Available***Specific Gravity**

2.72 [Ref Std: WATER=1]

**Solubility in Water**

Nil

**Solubility- non-water***Not Applicable***Partition coefficient: n-octanol/ water***No Data Available***Autoignition temperature***Not Applicable***Decomposition temperature***Not Applicable***Viscosity***Not Applicable***Average particle size***No Data Available***Bulk density***No Data Available***Hazardous Air Pollutants***No Data Available***Molecular weight***No Data Available***Percent volatile***Not Applicable***Softening point***No Data Available***SECTION 10: Stability and reactivity**

This material is considered to be non reactive under normal use conditions.

**SECTION 11: Toxicological information****Inhalation:**

No health effects are expected

**Skin Contact:**

No health effects are expected

**Eye Contact:**

No health effects are expected

**Ingestion:**

No health effects are expected

**Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use

may affect the performance of the product and may present potential health and safety hazards.

## SECTION 12: Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

## SECTION 13: Disposal considerations

Dispose of contents/container in accordance with the local/regional/national/international regulations.

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

## SECTION 16: Other information

### NFPA Hazard Classification

Health: 0 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

Health: 0 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

Document Group: 16-2384-2  
Issue Date: 04/30/21

Version Number: 1.03  
Supersedes Date: 05/28/19

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February 7, 2024

Re: Material Safety Data Sheet or Safety Data Sheet

To Whom It May Concern:

In response to your request for a Material Safety Data Sheet (MSDS) / Safety Data Sheet (SDS) from Emballages Matco Packaging Inc, we offer the following information:

The packaging material in question is an “article” as defined by the *United States Department of Labor* (DOL), *Occupational Safety and Health Administration* (OSHA) and is a “manufactured article” as defined by the *Canadian Hazardous Products Act* (R.S.C., 1985, c. H-3) and as such is exempt from the requirement for an MSDS/SDS.

US Federal OSHA defines an “article” as follows at 29 CFR 1910.1200 (c):

*Article* means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

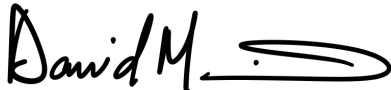
The *Canadian Federal Hazardous Products Act* defines a “manufactured article” as follows at PART II Hazardous Products, Interpretation, paragraph 11(1):

*Manufactured article* means any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, under normal conditions of use, will not release or otherwise cause a person to be exposed to a controlled product;

Any product which meets the definition of an “article” or a “manufactured article” is exempt from the requirement to provide an MSDS or an SDS.

If you should need additional information, please contact your Sales or Customer Service Representative.

Sincerely,



David Mucciarone  
VP Sales



# FRP

SPRAY ADHESIVE



**For vertical and horizontal installation of EcoFoil products**

## PRODUCT CHARACTERISTICS

**Spray-Lock FRP Spray Adhesive** bonds approved EcoFoil products for commercial and residential applications. Material must be structurally sound for use in commercial or residential applications.

**Spray-Lock FRP Spray Adhesive** uses 60% less adhesive than traditional trowel-on adhesives.

**Spray-Lock FRP Spray Adhesive** increases productivity with a faster application rate, saving time and money. Spray-Lock FRP Spray Adhesive comes in an easy-to-use aerosol can.

## ADVANTAGES

- Cuts labor cost by about 30%
- 8-hour working time
- Apply directly to wall/floor substrate or back of material for overhead/ceiling applications
- Releasable for repositioning (prior to rolling)
- Adheres to porous and non-porous substrates
- 0.0 g/mL VOC content
- Water-based adhesive
- Easy water cleanup while adhesive is still wet
- Non-flammable
- No offensive odors

\*According to EPA document: "National Volatile Organic Compound Emission Standards For Consumer Products" for aerosol adhesives.

## SUITABLE SUBSTRATES

**Spray-Lock FRP Spray Adhesive** adheres to most smooth, clean surfaces, including properly prepared:

- Plywood
- Drywall
- Water Resistant Drywall
- Approved Cement Board
- Metal
- FRP
- Ceramic Tile
- Concrete Substrates
- Block Wall

**NOTE: Prime all joint compound.**

## TECHNICAL CHARACTERISTICS

**Spray-Lock FRP Spray Adhesive** is a water-based acrylic blend spray adhesive that has milky white frost bubbles in appearance and provides immediate shear strength after tack during installation.

**Spray-Lock FRP Spray Adhesive** is solvent free, emits no harmful fumes, and contains 0.0 g/mL VOC (Volatile Organic Compounds) in content, according to EPA Test Method 8260B.

**Spray-Lock FRP Spray Adhesive** uses non-ozone depleting HFC propellant.



[www.spraylock.com](http://www.spraylock.com)  
423.305.6151



[www.ecofoil.com](http://www.ecofoil.com)  
888.349.3645

# TECHNICAL DATA

|                              |  |
|------------------------------|--|
| CHEMICAL TYPE                | Water-based acrylic blend  |
| APPEARANCE                   | Milky white frost bubbles  |
| ODOR                         | Sweet mild odor  |
| FLASH POINT                  | Will not burn  |
| NFPA 704 FLAMMABILITY RATING | 0 (Non-flammable)  |
| SHELF LIFE                   | 3 years, if unopened   |
| OPEN TIME                    | 8 hours  |
| DRY TIME                     | Once adhesive is dry to touch (10-20 minutes)  |
| VOC CONTENT                  | 0.0 g/mL calculated per EPA Test Method 8260B  |
| STORAGE                      | Do not subject to freezing temperatures  |
| CLIMATE-CONTROL SETTINGS     | Building owners should become aware of the wall and flooring material manufacturer's guidelines for climate-control settings (temperature and humidity). These conditions must be monitored and kept constant to ensure the overall performance and long-term success of the installation. |



## COVERAGE GUIDE

FRP ADHESIVE | 22 oz AEROSOL CAN

100 ft<sup>2</sup> (3.9 m<sup>2</sup>)

Coverage rates are a guide and figures will increase or decrease depending on the spraying technique implemented. Please refer to the Install Guide for detailed instructions.

DATE: 05.08.23  
REV: REL

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : FRP Adhesive  
Product code : Not available

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive

#### 1.3. Details of the supplier of the safety data sheet

Spray-Lock, Inc.  
5959 Shallowford Road Suite 405  
Chattanooga, TN 37421 - USA  
T 423-305-6151

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1 (800) 424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Gases under pressure - Dissolved gas

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS04

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : Contains gas under pressure; may explode if heated.  
Precautionary statements (GHS-US) : Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Other hazards

No additional information available.

#### 2.4. Unknown acute toxicity (GHS-US)

None.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable.

#### 3.2. Mixture

| Name               | Product identifier | %       | GHS-US classification        |
|--------------------|--------------------|---------|------------------------------|
| 1,1-Difluoroethane | (CAS No) 75-37-6   | 10 - 30 | Flam. Gas 1<br>Liquefied gas |

\* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.



# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/injuries after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

- Protection during firefighting : Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

#### 6.2. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

#### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120°F. Do not pierce or burn, even after use. When using do not eat, drink or smoke.
- Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep locked up and out of reach of children. Keep from freezing. Store away from direct sunlight or other heat sources. Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Not available.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| 1,1-Difluoroethane (75-37-6) |                |
|------------------------------|----------------|
| ACGIH                        | Not applicable |
| OSHA                         | Not applicable |

#### 8.2. Exposure controls

|                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.   |
| Hand protection                  | : Wear suitable gloves.  |
| Eye protection                   | : Safety glasses or goggles are recommended when using product.  |
| Skin and body protection         | : Wear suitable protective clothing.   |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Environmental exposure controls  | : Maintain levels below community environmental protection thresholds.   |
| Other information                | : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.                                       |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                               |
|--|-------------------------------|
| Physical state                             | : Gas/Pressurized Liquid      |
| Appearance                                 | : Clear                       |
| Color                                      | : White                       |
| Odor                                       | : Sweet                       |
| Odor threshold                             | : No data available           |
| pH   | : 5.5 - 7.5                   |
| Relative evaporation rate (butylacetate=1) | : No data available           |
| Melting point                              | : No data available           |
| Freezing point                             | : 32°F (0°C)                  |
| Boiling point                              | : No data available           |
| Flash point                                | : No data available           |
| Auto-ignition temperature                  | : No data available           |
| Decomposition temperature                  | : No data available           |
| Flammability (solid, gas)                  | : Not flammable               |
| Vapor pressure                             | : No data available           |
| Relative vapor density at 68°F             | : > 1 (Air = 1)               |
| Relative density                           | : 1.03                        |
| Solubility                                 | : Miscible                    |
| Partition coefficient: n-octanol/water     | : No data available           |
| Log Kow                                    | : No data available           |
| Viscosity, kinematic                       | : No data available           |
| Viscosity, dynamic                         | : No data available           |
| Explosive properties                       | : No data available           |
| Oxidising properties                       | : No data available           |
| Explosive limits                           | : No data available           |
| VOC Content                                | : <0.001 g/mL (EPA Method 24) |

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### 10.2. Chemical stability

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition.

### 10.5. Incompatible materials

Oxidizers. Nitrates. Chlorine bleach.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified.

| FRP Adhesive        |                   |
|---------------------|-------------------|
| LD50 oral rat       | > 2000 mg/kg      |
| LD50 dermal rat     | No data available |
| LC50 inhalation rat | No data available |

| 1,1-Difluoroethane (75-37-6) |                          |
|------------------------------|--------------------------|
| LC50 inhalation mouse        | 977 g/m <sup>3</sup> /2h |

|  |   |
|--|---|
| Skin corrosion/irritation                          | : Based on available data, the classification criteria are not met.   |
| Serious eye damage/irritation                      | : Based on available data, the classification criteria are not met.   |
| Respiratory or skin sensitisation                  | : Based on available data, the classification criteria are not met.   |
| Germ cell mutagenicity                             | : Based on available data, the classification criteria are not met.   |
| Carcinogenicity                                    | : Based on available data, the classification criteria are not met.   |
| Reproductive toxicity                              | : Based on available data, the classification criteria are not met.   |
| Specific target organ toxicity (single exposure)   | : Based on available data, the classification criteria are not met.   |
| Specific target organ toxicity (repeated exposure) | : Based on available data, the classification criteria are not met.   |
| Aspiration hazard                                  | : Based on available data, the classification criteria are not met.   |
| Symptoms/injuries after inhalation                 | : May cause respiratory tract irritation.   |
| Symptoms/injuries after skin contact               | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.  |
| Symptoms/injuries after eye contact                | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/injuries after ingestion                  | : Not a normal route of exposure.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

| FRP Adhesive                  |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| FRP Adhesive              |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

# FRP Adhesive

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Pressurized container: Do not pierce or burn, even after use.

### SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : UN1950  
Proper Shipping Name (DOT) : Aerosols, non-flammable  
Department of Transportation (DOT) Hazard Classes : 2.2  
Hazard labels (DOT) :



#### Additional information

Other information : No supplementary information available.  
Special transport precautions : Do not handle until all safety precautions have been read and understood.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

#### 15.2. US State regulations

#### FRP Adhesive

|                            |      |
|----------------------------|------|
| State or local regulations | None |
|----------------------------|------|

### SECTION 16: Other information

Date of issue : 06/10/22  
Other information : None.

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# Brochure

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# Ultra NT SCIF Barrier

## Designed for SCIF Rooms

Block RF frequencies and eliminate the threat of electronic surveillance in SCIF rooms, SAPF, conference rooms, offices, or data storage facilities. Trusted worldwide by contractors, corporations, and government agencies.



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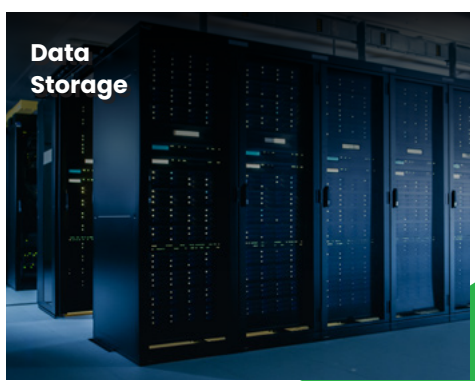
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### Solid SCIF Barrier FOR NON-VENTILATED SPACES

- **VAPOR BARRIER:** Seal seams with tape to maintain a vapor barrier, preventing passage of air and moisture
- **INSTALLS EASILY:** Use a staple gun or spray adhesive to secure in place
- Available in 500 or 1,000 sq. ft. rolls



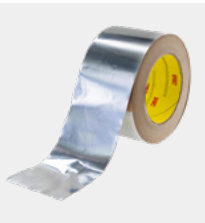
### Perforated SCIF Barrier FOR VENTILATED SPACES

- **BREATHABLE:** Tiny holes promote air movement, preventing buildup of moisture/mold
- **INSTALLS EASILY:** Use a staple gun or spray adhesive to secure in place
- Available in 500 sq. ft. rolls



### Eco-Friendly Spray Adhesive

Mount SCIF material easily onto wood, metal, drywall, concrete block, FRP wall panels, and more.



### SCIF Tape

Durable & easy to work with. Available with conductive or non-conductive adhesive.

## About EcoFoil

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# Ultra NT for SCIFs

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