



7031 SW 22 Court, Davie, FL 33317

(866) 637-ROOF (7663) Fax: (941) 866-7663

## Final Flat Roof

### MATERIAL SAFETY DATA SHEET

#### Section I – IDENTITY INFORMATION

**Identity (Tradename):** FFR-100 Flexible Roof Coating Part A  
**Product Type:** Thermo-set  
**Date Revised:** April 10, 2008  
**CHEMTREC Emergency Number 1-800-424-9300**

#### Section II – HAZARDOUS INGREDIENTS

Hazardous Components	CAS #	Occupational Exposure Limits			Vapor Pressure	
		OSHA PEL	ACGIH TLV	OSHA STEL	mm Hg @	Temp
Ethyl Benzene	108-88-3	200 PPM	50 PPM	300 PPM	28mm	77°F
Trade Secret (Bisphenol A Polymer)		NE	NE	NE		N/A
Alkyl Glycidyl Ethers	68609-97-2	NE	NE	NE		N/A
Xylene	1330-20-7	100 PPM	100 PPM	NE		N/A
Methyl Isobutyl Ketone	108-10-1	100 PPM	50 PPM	NE		N/A

Carcinogen Status: IARC: Not Reviewed, NTP: Not Reviewed, OSHA: Not Reviewed

#### Section III – PHYSICAL DATA

**Boiling Point:** 237°F  
**Vapor Density:** 3.2  
**% Volatile:** 19%  
**Physical State:** Liquid  
**Appearance and Odor:** Pigmented or Clear Liquid, Aromatic Odor

**SP. Gravity (H2O=1):** 1.1  
**Evaporation Rate:** 1.9  
**Solubility in water:** Nil

#### Section IV – FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 68°F-Closed Cup  
**Flammable Limits (LFL/UFL):** 1.2/7  
**Extinguishing Media:** Carbon Dioxide, Foam, Dry Chemical, Water Spray  
**Special Fire Fighting Procedures:** Use self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** Decomposition and combustion products may be toxic. Heating forms flammable vapors which may form explosive mixtures with air.

## Section V – REACTIVITY DATA

<b>Stability:</b>	Stable
<b>Incompatibility:</b>	Strong oxidizing agents
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Excessive heat and open flames.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Aldehydes, and unidentified organic compounds

## Section VI – TOXICOLOGICAL INFORMATION

<b>Primary Routes of Exposure:</b>	Dermal, Inhalation	<b>Sensitization:</b>	Moderate sensitizer
<b>Skin Irritation:</b>	(Rabbit) Moderate irritant	<b>Eye Irritation:</b>	(Rabbit) Severe irritant
<b>Acute Oral Effects (LD50):</b>	(Rat) 5- 8g/kg.		
<b>Acute Dermal Toxicity (LD50):</b>	(Rabbit)>6,000mg/kg		
<b>Inhalation Toxicity (LC50):</b>	Irritating to mucous membranes and respiratory tract.		

## Section VII – FIRST AID MEASURES

**Skin:** Wipe away excess material with dry towel. Wash affected areas with plenty of water and soap for several minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

**Eyes:** Immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention. If physician is not available, flush for an additional 15 minutes.

**Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Contains organic solvent. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention immediately!

**Inhalation:** Remove to fresh air. Get immediate medical attention if respiratory irritation develops or if breathing becomes difficult.

**Overexposure Effects:** Overexposure to this material can cause moderate eye irritation. Vapors from a component in this product can cause respiratory irritation, dizziness, headache, and possibly pulmonary edema. In animal studies, exposure to high vapor concentration may have effects on reproduction. Prolonged contact with the skin may result in defatting and dermatitis.

**Medical Conditions Aggravated by Exposure:** allergy, eczema, or skin conditions, respiratory tract irritation, headache, dizziness, nausea.

## Section VIII – SPILL OR LEAK PROCEDURES

**Accidental Release Procedures:** Remove all sources of ignition. Provide explosion proof ventilation. Take up on absorbent material. Shovel with non-sparking tools into closable container for disposal. Wear protective equipment specified below. Thoroughly flush contaminated area with water.

**Waste Disposal Methods:** Dispose in accordance with federal, state, and local regulations.

## Section IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation:</b>	Explosion proof general mechanical ventilation and local exhaust recommended.
<b>Skin Protection:</b>	Wear impervious gloves
<b>Eye Protection:</b>	Wear splash-proof chemical goggles or complete face shield.
<b>Respiratory Protection:</b>	Organic chemical cartridge respirator, if needed.
<b>Other protective Equipment:</b>	Wear appropriate equipment to prevent probability of exposure and personal contact.

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 Section X – HANDLING AND STORAGE PRECAUTIONS
 

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Warning! May cause severe eye irritation. May cause sensitization. Avoid breathing mist or vapor. Do not take internally. Use with adequate ventilation. Wear chemical splash goggles, impervious gloves, and protective clothing when handling. Wash thoroughly after handling. Keep container closed when not in use. Store in dry area in closed containers. For industrial use only. Flammable solution. Keep away from heat, sparks, and open flame.

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 Section XI – TRANSPORT INFORMATION
 

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DOT:

<b>Proper Shipping Name:</b>	Resin Solution	<b>Hazard Class:</b>	3
<b>ID Number:</b>	UN 1866	<b>Packing Group:</b>	PG II
<b>ERG Number:</b>	127		

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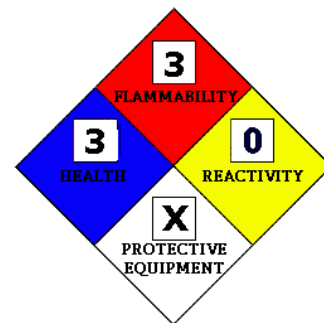
 Section XII – OTHER INFORMATION
 

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**OSHA Status:** This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**Disclaimer:** The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

FFR makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. FFR assumes no responsibilities for injury from the use of this product.





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## Final Flat Roof

### MATERIAL SAFETY DATA SHEET

#### Section I – IDENTITY INFORMATION

**Identity (Tradename):** FFR-125 Flexible Roof Coating Part B  
**Product Type:** Thermo-set  
**Date Revised:** March 26, 2009  
**CHEMTREC Emergency Number 1-800-424-9300**

#### Section II – HAZARDOUS INGREDIENTS

Hazardous Components	CAS #	Occupational Exposure Limits			Vapor Pressure mm Hg @ Temp
		OSHA PEL	ACGIH TLV	OSHA STEL	
Xylene	1330-20-7	100 PPM	50 PPM	NE	6mm 68°F
Ethyl Benzene	100-41-4	100 PPM	100 PPM	NE	N/A
Trade Secret (Polyamide)		NE	NE	NE	N/A
Antimony Trioxide	1309-64-4	50 PPM	NE	NE	N/A
Decabromodiphenyl Oxide	1163-19-5	150 PPM	100 PPM	NE	N/A
Pigment (Non-Hazardous)		100 PPM	100 PPM	60 PPM	N/A

Carcinogen Status: IARC: Not Reviewed, NTP: Not Reviewed, OSHA: Not Reviewed

#### Section III – PHYSICAL DATA

**Boiling Point:** 282°F (Solvent)      **SP. Gravity (H2O=1):** 1  
**Vapor Density:** 3.7 Xylene (Air = 1)      **Evaporation Rate:** .6 Xylene (Butyl Acetate =1)  
**% Volatile:** 17%      **Solubility in water:** Partial  
**Physical State:** Liquid  
**Appearance and Odor:** Amber Liquid, Aromatic Odor

#### Section IV – FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 80°F-Closed Cup  
**Flammable Limits (LFL/UFL):** 1/7 (Xylene)  
**Extinguishing Media:** Carbon Dioxide, Foam, Dry Chemical, Water Spray  
**Special Fire Fighting Procedures:** Use self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** Decomposition and combustion products may be toxic. Heating forms flammable vapors which may form explosive mixtures with air.

## Section V – REACTIVITY DATA

<b>Stability:</b>	Stable
<b>Incompatibility:</b>	Strong oxidizing agents
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Excessive heat and open flames.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Aldehydes, and unidentified organic compounds

## Section VI – TOXICOLOGICAL INFORMATION

<b>Primary Routes of Exposure:</b>	Dermal, Inhalation
<b>Acute Oral Effects (LD50):</b>	(Rat) 4,300mg/kg (xylene).
<b>Sensitization:</b>	Potential sensitizer
<b>Acute Dermal Toxicity (LD50):</b>	(Rabbit)>5,000mg/kg (Polyamide resin).
<b>Skin Irritation:</b>	(Rabbit) Moderate irritant
<b>Eye Irritation:</b>	(Rabbit) Severe irritant

## Section VII – FIRST AID MEASURES

**Skin:** Wipe away excess material with dry towel. Wash affected areas with plenty of water and soap for several minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

**Eyes:** Immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention. If physician is not available, flush for an additional 15 minutes.

**Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Contains organic solvent. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention immediately!

**Inhalation:** Remove to fresh air. Get immediate medical attention if respiratory irritation develops or if breathing becomes difficult.

**Overexposure Effects:** Overexposure to this material can cause skin, eye, and respiratory irritation and allergic skin reaction. Inhalation of vapors from a component in this product cause central nervous system depression, headache, dizziness, loss of balance, coughing, pulmonary edema and liver and kidney damage. Insensitive individuals, cardiac arrhythmia, leading to death, may occur. A component in the product has caused fetal damage following dermal/oral exposure to guinea pigs or rats.

**Medical Conditions Aggravated by Exposure:** allergy, eczema, or skin conditions.

## Section VIII – SPILL OR LEAK PROCEDURES

**Accidental Release Procedures:** Remove all sources of ignition. Provide explosion proof ventilation. Take up on absorbent material. Shovel with non-sparking tools into closable container for disposal. Wear protective equipment specified below. Thoroughly flush contaminated area with water.

**Waste Disposal Methods:** Dispose in accordance with federal, state, and local regulations.

## Section IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation:</b>	Explosion proof mechanical ventilation and local exhaust recommended.
<b>Skin Protection:</b>	Wear impervious gloves
<b>Eye Protection:</b>	Wear splash-proof chemical goggles or complete face shield.
<b>Respiratory Protection:</b>	Organic chemical cartridge respirator, if needed.
<b>Other protective Equipment:</b>	Wear appropriate equipment to prevent probability of exposure and personal contact.

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 Section X – HANDLING AND STORAGE PRECAUTIONS
 

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Warning! May cause severe eye irritation. May cause sensitization. Avoid breathing mist or vapor. Do not take internally. Use with adequate ventilation. Wear chemical splash goggles, impervious gloves, and protective clothing when handling. Wash thoroughly after handling. Keep container closed when not in use. Store in dry area in closed containers. For industrial use only. Flammable solution. Keep away from heat, sparks, and open flame.

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 Section XI – TRANSPORT INFORMATION
 

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DOT:

<b>Proper Shipping Name:</b>	Resin Solution	<b>Hazard Class:</b>	3
<b>ID Number:</b>	UN 1866	<b>Packing Group:</b>	PG III
<b>ERG Number:</b>	127		

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 Section XII – OTHER INFORMATION
 

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