

1. Product Name

Acrymax® AF-130FR Elastomeric Acrylic Roof Coating – Fire Retardant

2. Manufacturer

Acrymax Technologies Inc.
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3. Product Description

Basic Use

A superior quality 100% acrylic elastomeric coating formulated for superior weatherability and durability. Exhibits superior UV resistance and elongation.

AF-130FR is formulated with alumina trihydrate fillers for fire retardant properties. Alumina trihydrate acts as a flame retardant and smoke suppressant because of its thermodynamic properties. When exposed to heat, it will absorb about 280 cal/gram before liberating water vapor. This endothermic dehydration cools the membrane and dilutes with water those combustible gases that do escape.

AF-130FR is used as a fire-retardant weatherproof protective coating for a variety of applications including:

- Fire retardant coating for existing asphalt roofs and modified bitumen membranes.
- Used with polyester reinforcement to produce a reinforced membrane roofing system for use over existing asphalt roofing.
- Protective coating for urethane foam.

Features

- Fire retardant
- Excellent adhesion
- UV Resistant
- Mildew resistant
- Provides barrier to ultraviolet light to prevent degradation of underlying substrate
- Reflective white and light colors lower roof surface temperatures which can help reduce cooling costs
- Environmentally friendly waterborne formulation
- Meets all VOC requirements

Sizes

Container sizes are typically 1 and 5 gallon pails and 55-gallon drums.

Colors

AF-130FR is available in white, aluminum gray, and tan. Custom colors are available by special order.

Limitations

Successful coating applications require proper selection of coating system for specific application. Comply with manufacturer's recommendations. Adequate and

4. TECHNICAL DATA

Typical Properties (Liquid Coating)

Weight per Gallon	12.1 +/- .3 lbs.	ASTM D1475-90
% Solids by Weight	66.9 +/- 2	ASTM D2369-97
% Solids by Volume	51.9 +/- 2	ASTM D2697-86
Pigment volume concentration	~ 45.4%	
Viscosity	95- 120 kU	ASTM D562-01
V.O.C.	< 100 g/l	ASTM D3960-01
pH	9.0 – 9.5	ASTM E70-97
Flash point	N/A	

Typical Physical Properties (20 mil Cured film)

Low temperature flexibility	Passes 1/8" mandrel bend @ -15°	ASTM C-734
Elongation at max stress	180% @ 74 ° F 60% @ 0 ° F	ASTM D-412
Elongation at break	220% @ 74 ° F 80% @ 0 ° F	ASTM D-412
Tensile Strength at max stress	300 psi @ 74 ° F 1065 psi @ 0 ° F	ASTM D-412
Tensile Strength at break	300 psi @ 74 ° F 1065 psi @ 0 ° F	ASTM D-412
Recovery after 25% elongation	55%	ASTM D-412
Permeability (20 mil film)	<20 perms	ASTM E96-80
Accelerated Weathering	no effect after 2 years weatherometer	ASTM G-53

Approvals

Factory Mutual Approved when used according to approved specification .

thorough surface preparation is required. Elastomeric coating systems are designed for application to smooth surfaces. Do not apply when rain, fog, or freezing temperatures are possible within 24 hours after application or when temperature can fall below the dew point before coating can dry. Acrymax coatings should only be applied to sound and properly prepared surfaces and should not be applied over wet insulation.

5. Installation

Preparation: All surfaces must be clean and free of dirt, dust, oil, and other contaminants that can interfere with adhesion. Power washing is recommended to insure a clean surface. Primers should be used as appropriate for the surface to be coated. Consult appropriate specification or Acrymax for information regarding priming. Priming is not a substitute for proper cleaning.

Application: Acrymax AF-130FR can be applied by brush, roller, or spray. Do not thin or dilute. Consult guidelines for specific application for detailed preparation, application, and coverage information.

Coverage: Acrymax AF-130FR should be applied at the minimum rate of 1 – 1.5 gallons per 100 square feet per coat to provide a uniform, pinhole free, and continuous membrane over entire surface. Minimum two coats. When used with Polyester reinforcing fabric minimum application rate is 2.5 to 3 gallons per 100 square feet to embed and saturate fabric before application of finish coats. Finish coats to be applied at minimum rate of 1 gallon per 100 square feet. Two coats. Coverage may vary depending on surface condition, alligatoring, and porosity. Additionally, warranty requirements and the requirements and service conditions of the specific job must be considered. It is suggested that a minimum of 10% be added to calculated material requirements to account for overspray or applicator error to

provide for complete and adequate coverage.

Acrymax elastomeric coating systems should be applied to achieve a minimum dry film thickness (dft) of 15 mils. For waterproofing applications the applied dry film thickness of the coating should be 30 mils or more. When reinforcement is used minimum membrane thickness should be 40-45 mils. See specific system application guidelines or consult Acrymax for detailed information and material requirements.

Drying Time: Drying time depends on temperature, direct sunlight, air movement, relative humidity, dew point, etc. and can vary considerably. Allow minimum of 2 hours between coats. Do not apply at temperatures below 45°F or when rain, fog, or freezing temperatures are possible within 24 hours after application. It is the responsibility of the applicator or foreman on the job to determine if present and forecast weather conditions are acceptable for application of waterborne coatings.

Clean-up: Clean up with soap and water before coating dries. Waterborne coatings will not redissolve after drying, so pumps and other application equipment must be cleaned immediately following use before coating dries.

6. Availability and Cost

Acrymax coatings are available from Acrymax and through select distributors throughout the United States.

Cost information may be obtained from the manufacturer at the number listed in section 2.

7. Warranty

Limited Material Warranty: Since Acrymax does not control the application of its products, or the condition of the surfaces to which they are applied; Acrymax's liability will under no circumstances exceed replacement of the product proven defective. Acrymax limited material warranty is available when all

materials are used in strict accordance with all of Acrymax's requirements and recommendations. Acrymax's sole responsibility under this limited material warranty is for defective material and Acrymax's only obligation shall be to either replace or refund the purchase price of the materials or part thereof proven to be defective. No statement by anyone may supersede this limited material warranty, except when done in writing by Acrymax's Technical Service Office in Media, PA. Specific projects that meet certain requirements may qualify for extended or system warranties. Consult Acrymax for complete warranty information.

8. Maintenance

Periodic inspections are advised for all projects. An occasional cleaning and/or recoating of surfaces may be required depending on environmental conditions to which material surface is exposed. Repair as necessary.

9. Technical Services

Factory service personnel offer design assistance and technical support. For technical assistance, contact Acrymax.

10. Disclaimer

The technical data and suggestions for use contained in this document and Acrymax published product information are believed to be true and accurate as of the date of issuance. The statements contained in these product information publications do not constitute a warranty, expressed or implied, as to the performance of these products. All technical information is subject to change without notice.

Publication: AF-130FR Product Data
Date: 01-01-04

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Read and comply with Material Safety Data Sheet