

FE COAT 1000 ACRYLIC ROOF COATING

PRODUCT DESCRIPTION:

FE COAT 1000 is an elastomeric acrylic coating. It forms a waterproofing membrane with superior weatherproofing, durability, flexibility, and color retention for long-term protection.

FE COAT 1000 is a single component basecoat/topcoat system designed for easy application with conventional or airless spray equipment, as well as brush and rollers. The FE COAT 1000 system is economical, reflective, and energy efficient. Please contact the BASF Technical Service Department for further information. FE COAT 1000 is ENERGY STAR® listed as a reflective roof coating.

FE COAT 1000 is used to protect, weatherproof, and reflect UV radiation when used over spray polyurethane foam systems, built-up roofs, modified Bitumen systems, and metal roof systems. FE COAT 1000 can also be used as a damp proofing material over masonry and wood surfaces. FE COAT 1000 is not suitable for interior applications in place of a thermal barrier. This acrylic coating system has excellent adhesion to many other existing coatings and roof surfaces;

TYPICAL PROPERTIES (Liquid):

Property	Value	Test Method
Solids by Weight:	66%(±2)	ASTM D 1644
Solids by Volume:	55%(±2)	ASTM D 2697
Theoretical Coverage:	962 ft ² /gal @ 1 mil	
Volatile Organic Content (VOC):	0 g/l	EPA Method 24
Colors:*	Standard white; light & dark gray	
Weight per gallon:	White - 11.9 lbs./gal	ASTM D 1475
	Light & Dark Gray - 11.7 lbs./gal	ASTM D 1475
Solar Reflectivity Index (SRI)	0.85-1.07	ASTM C1549

TYPICAL PROPERTIES (Cured):

Property	Value	Test Method
Cure Rate:		
Time to tack free @ 75°F (24°C), 50%RH	White - 3 hrs; Gray - 2 hrs	
Full Cure @ 75°F (24°C), 50%RH	2 - 3 days	
Tensile Strength:	280 (±20) psi (1.38 MPa)	ASTM D 2370
Elongation:	280% (±20)	ASTM D 2370
Hardness:	55-60 Shore A	ASTM D 2240, C 661
Permeance:	3.0 US Perms @ 20 dry mils	ASTM E 96 (B)
Water Absorption:	1.5% maximum	ASTM D 471
Low Temperature Flexibility:	Passes	ASTM C 734
Accelerated Weathering (3,000 hours):	No Checking, cracking or loss of flexibility	ASTM G 53
Fungi Resistance:	0 rating	ASTM G 21
Fire Resistance:**	Passes UL Class A noncombustible and Class B combustible decks	UL 790

** This fire rating is not intended to reflect hazards present by this or any other materials under actual fire conditions. This data is based on laboratory tests and may not reflect actual in place properties or performance.

BASF FE COAT 1000

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Application Instructions:

Mixing: FE COAT 1000 is a single component acrylic coating. It is necessary to mix each container of FE COAT 1000 with at least a 3/4 hp power agitator for at least 5 minutes prior to use to insure uniform consistency and color.

Thinning: Thinning is not normally necessary or recommended. Tap water may be used to reduce the viscosity by thoroughly mixing in up to 5%.

Methods: FE COAT 1000 may be applied by conventional or airless spray equipment or may be applied by brush or roller. Airless spray pumps should develop a minimum of 2,000 psi fluid pressure at 1 gallon per minute output. Use an airless gun with a .027" to .039" spray tip with a fan angle of 40°- 60°. The fluid hose should be a minimum of 3/8" inside diameter up to 100' with greater lengths made up of 1/2" diameter from the spray pump to 300' maximum. Filters should be at least 40 mesh or larger.

Application: Polyurethane foam and other surfaces to be coated must be dry and free of all dirt and contaminants. Each coat of FE COAT 1000 must be tack free before an additional coat is applied. Subsequent coats shall be applied in a direction perpendicular to the previous coat. Additional coats should be applied as soon after the initial coat is tack free and dry to avoid contamination.

Complete cure of the FE COAT 1000 will take 24-72 hours depending on weather conditions. Lower temperatures and/or high humidity conditions will retard the cure. Do not apply if weather conditions will not permit cure before rain, dew, fog or temperatures below 50°F(10°C) occur. FE COAT 1000 will cease the curing process when it is below 50°F(10°C). Do not apply in the late afternoon if heavy moisture condensation or rain may occur during the night.

Do not apply without adequate air exchange and ventilation in enclosed areas.

Clean-up: FE COAT 1000 can be cleaned from spray equipment and rollers with clean tap water. It is not recommended to leave the FE COAT 1000 in the hoses or pumps after or between uses.

Shipping Weight: 55 gal Drum White – 698 lbs. 55 gal Drum Gray – 681 lbs.

Storage: FE COAT 1000 will freeze and become unusable at or below 32°F (0°C). Do not store or ship unless protection from freezing is assured. Shelf life is approximately 12 months. Store at 65°F - 90°F (18°C - 32°C).

Freight Classification: Non-Hazardous/Non-Regulated Product

Handling and Safety:

For specific information refer to OSHA guidelines and the FE COAT 1000 Material Safety Data Sheet.

Avoid breathing of vapor or spray mist. For exterior applications, approved (MSHA/NIOSH) chemical cartridge respirators must be worn by the applicator and personnel in the vicinity of the application and a change out schedule must be maintained for the cartridges and respirators. Interior applications require a positive feed fresh air mask and exhaust ventilation.

In case of eye contact, flush with large amounts of water and get medical attention. For skin contact, wipe off liquid and wash affected area with soap and tap water. Remove contaminated clothing and wash before reuse. In the case of ingestion, drink plenty of water and seek medical attention immediately.

Cleanup of Spills or Leakage: With adequate ventilation and appropriate personal protective equipment, cover the spill area with an inert absorbent material such as clay or vermiculite and transfer to steel waste containers.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:

Various Special Warranties may be purchased from BASF Corporation. These include Full System Limited Warranties for 5 to 20 years and Coating-Only Limited Warranties for 5 to 20 years. Special warranties are available only when the roof system is applied by a BASF Approved Applicator in strict accordance with BASF's application specifications for the particular warranty package selected. If no special warranty is purchased, BASF's Standard Product Warranty applies. For details on all available warranties, contact your BASF Roofing Specialist.

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Certifications, approvals and listings are based on a specific design configuration and should be verified with BASF.



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