

EnviroECOats

Environmentally and Economically Friendly Coatings



MS-FRimer by EnviroECOats is a cost and time effective fire barrier for various construction assemblies. The product is an intumescent and fire-retardant solution that minimizes flame spread, smoke production and structural damage. It does not emit continuous smoke with E84 testing yielding 0=flame spread and 20=smoke index during flame exposure. MS-FRimer is finished in white and is designed to be top coated with your favorite colors and finishes.

Mixing: use a ½” electric or air driven mixer with slotted paddle or jiffy mixer blade. Mix MS-FRimer for a minimum of 5 minutes or until thoroughly mix.

Tinting and Thinning: Do not thin or tint MS-FRimer

Application: MS-FRimer may be used directly on foam, wood, textiles, masonry, wallboard, metal, etc. All surfaces must be clean and free of contaminates. Application temperature ranges from 50°F to 110°F. Tack free time is 30 min at 75°F with full cure in 24 hours.

Re-coat time is normally 20-30 min. Functional operating temperature ranges from -40°F to 1800°F. Application film thickness dependent on barrier requirement but typically 10-15 mils per coat. Subsequent coats may be applied after the first coat is fully dry. MS-FRimer must be allowed to dry for 24 hours at 10 after the last coat is applied prior to applying topcoat.

Topcoats: MS-FRimer is an acrylic based primer and is designed to be used with acrylic water-based topcoat. Do not use with epoxy, polyurethane, and other topcoats.

Coverage: 200 sft./gal at 5 mil
100 sft./gal at 10 mil
Allow for loss in mixing and application

MS-FRimer Technical Data Sheet

<u>Characteristics</u>	<u>Test Results</u>	<u>Test Method</u>
Fire Rating	Class A 0- Flame 20-Smoke	ASTM E84
Fire Rating	< 3 hrs.	ASTM E119
Hardness	45-50	Shore D
Bond Strength	50 psi	ASTM D952-90
Compressive Strength	300 psi	ASTM D695-91
Abrasion Resistance	0 grams loss	ASTM D1044-90
Impact	.8 lbs/in of notch	ASTM D256-90b
% Solids by weight (liquid)	50-65 %	
Spread Rate	100 sq ft/gal	
VOC	Less than 50	

Functional operating temperature ranges from -40°F to 1800°F. Application film thickness dependent on barrier requirement but typically 20-30 mils. Subsequent coats may be applied after the first coat is fully dry. Fire rating is 1 hr. rating per 60 mils. A 2-hr. rating would be 120 mils. Do not expose to freeze-thaw condition.

Storage and Packaging:

Shelf life: 1 year from the date of production (when kept at the recommended storage condition and in an unopened original container)
Storage: Store indoors in a dry environment between 33 – 100 F and protect from Freezing.
Packaging: 5-gallon pail, 55-gallon drums and Totes