

MS-Fireshield by **Milenium Solutions** is a single component waterborne elastomeric intumescent fire- resistant barrier coating that will withstand direct flame contact for up to 2 hours fire protection. It does not emit continuous smoke with E84 testing yielding 0=flame spread and 20=smoke during flameexposure.

MS-Fireshield also provides outstanding UV stability and rated by the Cool Roof Rating Council at 84% reflectivity with an SRI 106.

CRRC COOL ROOF RATING COUNCIL ®	Solar Reflectance Thermal Emittance	<u>Initia</u> 0.84 0.90	<u>Weathered</u> 0.77 0.88
	Rated Product ID Number CRRC Licensee ID Numb Classification	er	0001 1212 Production Line

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

This material may be used directly on foam, wood, textiles, masonry, wallboard, metal, etc. It does not normally require the use of primers on most substrates to obtain proper adhesion. Material must be stirred thoroughly prior to use. 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 20-30min.-Functionaloperatingtemperature ranges from -40°F to 1800°F. Application film thickness dependent on barrier requirement but typically 20-30 mils per coat. 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. Coverage is 100 sq.ft./gal.

MS-FIRESHIELD TECHNICAL DATA SHEET

Characteristics	Test Results	Test Method
Fire Rating	Class A 0-Flame 20-Smoke	ASTM E84
Fire Rating	<3 hrs.	ASTME 119
Hardness	45-50	Shore D
Bond Strength	50 psi	ASTMD 952-90
Compressive Strength	300 psi	ASTMD 695-91
Elongation	100-150%	ASTMD 882
Abrasion Resistance	0 grams sloss	ASTMD 1044-90
Impact	0.8 lbs / in of notch	ASTMD 256-90b
% Solids by weight (liquid)	50-65%	
Spread Rate	100 sqft/gal	
voc	Non-Detect	

Adhesion Results of Typical Substrates per ASTMD 4541 Elcometer

concrete-primed	>300 psi	Concrete conesive
		Failure:excellent
		Bonding
Steel-primed	>1000 psi	Excellent Bonding
Wood-primed	>300 psi	Wood Failure;
		Excellent Bonding

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