

## ASTM Physical Performance Standards

### Commercial Density Product Comparison Spray-Applied Fire Resistive Materials (SFRMs)

Physical Property	ASTM Standard	AIA Masterspec/GSA Performance Requirements	TESTED PERFORMANCE <sup>①</sup>			
			CAFECO <sup>®</sup> BLAZE-SHIELD <sup>®</sup> II	CAFECO <sup>®</sup> 300	CARBOLINE TYPE 5 <sup>***</sup>	MONOKOTE <sup>®</sup> MK-6 <sup>**</sup>
Surface Burning Characteristics	ASTM E 84	Flame Spread: 10 or less Smoke Developed: 0	0 0	0 0	0 0	Not Available
Density	ASTM E 605	Min. 15 pcf average	16.0 pcf (256.3 kg/m <sup>3</sup> )	15 pcf (240 kg/m <sup>3</sup> )	15 pcf (240 kg/m <sup>3</sup> )	15 pcf (240 kg/m <sup>3</sup> )
Cohesion/ Adhesion (Bond Strength)	ASTM E 736	150 psf min.	375 psf (17.23 kPa)	432 psf (20.5 kPa)	200 psf (15.5 kPa)	339 psf (16.2 kPa)
Deflection	ASTM E 759	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination
Bond Impact	ASTM E 760	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination	No cracks, spalling or delamination
Compressive Strength	ASTM E 761	750 psf min.	2,380 psf (114 kPa)	3,100 psf (148.4 kPa)	2,340 psf (68.9 kPa)	1,440 psf (69.9 kPa)
Corrosion	ASTM E 937	Does not promote corrosion of steel	Does not promote corrosion of steel	Does not promote corrosion of steel	Does not promote corrosion of steel	Does not promote corrosion of steel
Air Erosion	ASTM E 859	Max. 0.025 g/ft. <sup>2</sup>	0.000 g/ft <sup>2</sup>	0.000 g/ft <sup>2</sup>	0.000 g/ft <sup>2</sup>	0.000 g/ft <sup>2</sup>
Fungal Resistance	ASTM G 21	Zero Growth After 28 days	Passed	Passed	Passed	Passed

① Based on independent laboratory tests under controlled conditions.

\*\* Based on W.R.Grace data published in the 2008 Sweet's Catalogue (07812/GRA)

\*\*\* Based on Carboline data published in the 2009 website Product Comparison Table. ([http://www.carboline.com/architectural\\_cementitious.aspx](http://www.carboline.com/architectural_cementitious.aspx))