

CEASEFIRE™ Coatings

When it comes to coatings, not only do we meet standards – we exceed them. We present here commercially available CEASEFIRE™ intumescent coatings as an example of the revolutionary power of our CEASEFIRE™ powders.

Waterborne Epoxy

Waterborne epoxy combines the performance characteristics and durability of epoxy with the low VOC and ease of cleanup offered by water based coatings. Waterborne Epoxy was developed for the gasoline and petroleum industries, where the requirements for fire retardancy are the most severe. This coating passed the UL1709 test at a fire temperature of 2000° f for 25 minutes with two 16 mil layers.

Superior

100% solid two-part epoxy based coating. It is ideal for metal surfaces due to its high resistance to heat transfer. Along with the other CEASEFIRE™ coatings, it passed the USA Class A test with a single 5 mil layer – an unheard of phenomenon in the fire retardant industry. Superior was originally designed for the large engine rooms in the marine industry.

High Performance

Two-part epoxy coating serves as the middle ground between flexibility of Latex and the heat resistance of Superior.

Latex

Very flexible one-part, latex-based coating. Ideal for applications that require a one-part solution with high flexibility. This coating is 70% solid.

Structural Steel

Two-part epoxy coating designed for long term fire resistance in construction high beams and untreated/unprimed steel up to ½ inch in a single application. At this thickness, in-house labs show that our technology can withstand over 3 hours in the ASTM E119 and 4 hours with a ¾ inch coating. Structural Steel has a light grey tone, and is ideal for the construction industry.

Clear

CEASEFIRE™ Clear epoxy is recommended for use as a base resin for specialty coatings. The viscosity is easily reduced by the addition of solvent (xylene). Pigments, anti-settling agents and other flame retardants may also be incorporated.

The CEASEFIRE™ Advantage:

- ✓ Higher performance
- ✓ Cost effective
- ✓ Easy to apply
- ✓ Non-halogenated
- ✓ Long term stability
- ✓ Thermal stability
- ✓ Good for outdoor use
- ✓ Clear version available
- ✓ Class A fire rating easily achieved and exceeded

CEASEFIRE™ Coatings Test Results

	Waterborne	Superior	High Perf.	Latex	Structural Steel	Clear
ASTM E-84	Class A		Class A		Class A	
UL-1709	25 min @ 32 mils		13 min @ 25 mils			
ASTM E-119	1 hr 20 min @ 3/16"	56 min @ 60 mils	52 min @ 35 mils 58 min @ 60 mils	114 min @ 1/4-3/8" 139 @ 3/8 – 1/2"		
IMO A.653(16)	Pass @ 10 mils					
UL94*	V0					
UL94**	V0					
UBC 26-2	pass					
ASTM B117	500 hours, no coating loss			720 hours, no coating loss		
ASTM D695	1/2" – 892.4 psi					
ASTM D256	1/2" – 0.93 ft-lbs-force/in.					
ASTM E662	Ask for details					
ASTM D4541	125 mils - 275 psi					
BSS 7239	Ask for details					
ASTM G53	No cracking, melting, or spotting					
ASTM E162	Class A					
MSC.41(64)	Ask for det.					

*Over Polyethylene foam **Over polypropylene foam



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Thickness	Coverage	Thickness	Coverage
1 mil	1604 sq. ft/gal	50 mil	32.1 sq. ft/gal
5 mil	300 sq. ft/gal	1/16" (62.5 mil)	25.6 sq. ft/gal
8 mil	200 sq. ft/gal	1/8" (125 mil)	12.8 sq. ft/gal
10 mil	160 sq. ft/gal	1/4" (250 mil)	6.4 sq. ft/gal
20 mil	80.2 sq. ft/gal	1/2" (500 mil)	3.2 sq. ft/gal
30 mil	53.5 sq. ft/gal	1" (1000 mil)	1.6 sq. ft/gal