



CEASEFIRE™ Superior FIRE RETARDANT COATING Technical Data Sheet

CEASEFIRE™ Superior Epoxy is a unique white two component epoxy fire retardant – intumescent coating based on our proprietary non-halogenated phosphate technology. All of our phosphates are manufactured in house for our exclusive use.

CEASEFIRE™ Superior Epoxy when exposed to heat and/or fire, **CEASEFIRE™ Superior Epoxy** forms a continuous char foam that protects products from both heat and flame. The active ingredients in **CEASEFIRE™ Superior Epoxy** products are not water soluble and will not leach out over time.

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

This char foam rises in 20-40 seconds. Once this char layer forms, smoke generation is almost entirely eliminated, the burning ceases, and coated surfaces are thermally insulated. ***The CEASEFIRE™ Superior Epoxy has DNV Certificate No. F-16685***

Type: Approval for use as a coating on ships, ship engine rooms, and mobile off shore units throughout all accommodations.

In-house lab tests on ¼" steel plate. Structural steel ceasefire was applied at 80 dry mils. With 1500°F flame applied to ceasefire side, it took 63 minutes for the back side of plate to see 500°F. More time would be seen on ½ or larger steel.

Due to the fluid nature of the Superior performance version it is hard to put on a thick coat. Typically no more than 10-20 wet mils can be applied at a time.

EK is a good clean up solvent. Do not use MEK or acetone for thinning this material.



Specification	Value
% Solids	100%
Mix Ratio (A:B)	100:24
Viscosity Part A @ 25°C	16,000 cps
Viscosity Part B @ 25°C	250 cps
Mixed viscosity @ 25°C	13,000 cps
Working life @ 25°C (77°F)	2 hours
Tack free set time @ 25°C	12 hours
Full Cure @ 25°C	48 hours
Dry weight /gal of wet material	9 lbs
VOCs	None

10 dry mil coating on most substrates for Class A flame spreads:

Property	Value
Flammability Rating (UL94)	V-0
IMO A.653(16)	Pass for marine coating
MSC.41(64)	Pass for marine coating
Glass Transition Temp	80°C
Hardness Shore D	72
Peel Strength	6.5 lbs/inch
Elongation to break	12%
Char height	Over 1 inch
Char initiation temp	300°C
Thermal Conductivity of Char	$\leq 1 \times 10^{-4}$ cal sec cm ² °C/cm
Air Convection through char	$\leq .001$ cc ΔP (mmHg) cm ² sec

Testing: If an application needs a specific flame spread or other fire retardant certificate other than what our in house or outside lab tests show, it is the responsibility of the client to get such test run by lab of their choice

