



CEASEFIRE™ Clear 2-part Epoxy FIRE RETARDANT COATING Technical Data Sheet

Patent Pending

CEASEFIRE™ Clear has DNV Type Approval for use as a coating on ships and mobile off shore units throughout all accommodations. DNV Certificate No. F-16685.

CEASEFIRE™ Clear is a unique two-component clear-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.

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

CEASEFIRE™ Clear 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.

To obtain a good sheen, **CEASEFIRE™ Clear** needs to be applied at 5 to 10 wet mils in a dry (low humidity) 37.7°C (100°F) heated area to ensure a tack free finish.

Burning a surface with **CEASEFIRE™ Clear** on it will produce a ¼" to 1-1/2" char foam depending on the thickness of the CeaseFire material applied and the char will start rising in 7 - 20 seconds. Once this char layer forms, smoke generation is almost entirely eliminated, burning ceases, and coated surfaces are thermally insulated.

Our in House Lab tests were run on ¼" steel plates. Our test was done with 80 dry mils applied to the 1/4" steel plate and a 1500°F flame applied to ceasefire side. It took 58 minutes for the back side of the plate to reach 500°F. More time would be seen if this test is done on ½" or larger steel plate or if the thickness of the material is increased.

Due to the fluid nature of the **CEASEFIRE™ Clear** material, it is hard to apply a single coat thick than 12-15 wet mils.

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



Specification	Value
% Solids	100%
Mix Ratio (A:B)	100:35
Viscosity Part A @ 25°C	1600 cps
Viscosity Part B @ 25°C	200 cps
Mixed viscosity @ 25°C	1200 cps
Mixed Viscosity + 10% xylene @ 25°C	850 cps
Working life @ 25°C (77°F)	5 hours
Working life @ 37.7°C (100°F)	1.5 hours
Tack free set time @ 25°C	12 hours
Tack free set time @ 37.7°C	4 hours
Full Cure @ 25°C	72 hours
Dry weight /gal of wet material	9 lbs
VOCs	None

With a 10 dry mil coating on most substrates:

Property	Value
Flammability Rating	V-0
ASTM E-84 Flame Spread	10 (Class A)
ASTM E-84 Smoke Generation	10 (Class A)
Glass Transition Temp	70°C
Hardness Shore D	72
Peel Strength	6.5 lbs/inch
Elongation to break	12%
Char height	Over ¼ inch
Char initiation temp	220°C

Testing: If your application requires a specific flame spread or other fire retardant certificate other than what our in-house or lab tests show, our staff is available to assist and guide you in obtaining them.

