



CEASEFIRE™ Latex

FIRE RETARDANT COATING

Technical Data Sheet

Patent Pending

CEASEFIRE™ Latex is a unique one component latex 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™ Latex** forms a continuous, dense char foam that protects products from both heat and flame. Additionally, **CEASEFIRE™ Latex** offers very low smoke generation during char formation. The active ingredients in **CEASEFIRE™ Latex** products are not soluble in water and will not leach out over time.

CEASEFIRE™ Latex is recommended for use as a coating for wood, composites, plastics or metals. The viscosity is easily reduced by the addition of tap water. Water based paste pigments for tinting or color, anti-settling agents, and other flame retardants may also be incorporated.

Most applications are applied at a nominal 10 dry mils for a Class A flame spread; This thickness may vary, depending on what fire rating is being sought after. This mean that the material needs to be applied at roughly 16+ wet mils. A vertical spray pattern for 10 linear feet, at 8 wet mils (200 sq. ft/gal or 5 ft. high 10 ft long sprayed twice), then a second coat sprayed horizontal over the vertical pattern just painted at 8 wet mils. There is now 16 wet mils applied to the substrate surface which produces a nominal 9.6 dry mils application.

The **CEASEFIRE™ Latex** is an unfinished paint. The latex material is used as a carrier and mechanical bonding agent that carries the CeaseFire powder to the substrate surface.

CEASEFIRE™ Latex can be used as a finished primer on the substrates. It can be left on the surface by itself, but is most often painted over by paint to add color and the additional protection to the substrate. The latex is designed for indoor applications.

To mix **CEASEFIRE™ Latex** use a 2000 to 2400 RPM drill and a shear painters mixing blade to get the **CEASEFIRE™** powder off of the bottom of the container and back into suspension of the latex. The **CEASEFIRE™** powder needs to be kept in suspension, to get an even coat of protection on the substrate it is intending to protect. The **CEASEFIRE™** powder is normally 6 to 10 micron sizing. It can be ground to farcical powder sizing if needed for some applications.

Landscapers are adding red, brown or whatever latex pigments to the **CEASEFIRE™ Latex** and spraying it onto bark dust, wood chips, pine straw and other ground covers to eliminate the fire problems where these products are used in commercial entryways or governmental buildings. The **CEASEFIRE™ Latex** has been applied around residential homes to cut down on wild fire damage by spraying **CEASEFIRE™**



Latex tinned to cover dried landscape materials (not recommended to be used on living landscape plants or garden foliage).

The **CEASEFIRE™ Latex**, urethane, and epoxy materials are being sprayed onto all vent opening on a roof or walls to minimize, eliminate or stop burning embers from entering into the walls and roof attic spaces. Where wild fires are a danger, spraying the attic spaces with **CEASEFIRE™ Latex** will add another level of fire protection against wild fire from burning house from the inside out.

Cleaning is like cleaning any latex from yourself or tools. Just use warm, not hot water and a mild soap to clean yourself or your tools.

Industrial uses: The **CEASEFIRE™ Latex** is being added into pressure sensitive latex glues and used in spreader trays to glue carpet backing onto the carpet. It is being used by cardboard manufactures to make fire rated materials. It is being used by door manufactures to compile to existing fire codes. It is being used to create Class A-B-C rating on many substrate materials.

Application: The **CEASEFIRE™ Latex** can be painted on, rolled on, or sprayed on to any porous substrate. The latex is water based latex carrying the **CEASEFIRE™** powder which is almost completely non water soluble.

Specification	Value
% Solids	60%
Viscosity	4700 - 5400 cps
Working life @ 25°C (77°F)	1 hour
Tack free set time @ 25°C	24 hours
Full Cure @ 25°C	48 hours
Dry weight /gal of wet material	9 lbs
VOCs	None
Flexibility (90 degree bend at 25°C)	PASS
pH	6.9-7.2
Specific gravity	1.16 – 1.18

With a 10 mil dry coating on most substrates:

Property	Value
UL94 over polyethylene foam	V-0
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UBC 26-2 (thermal barrier building)	pass
1 min. burn w/ propane t	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

