

Waterbased Fire Retardant

Description

Nanochem Waterbased Fire Retardant is a ready-to-use penetrating intumescent foam-forming fire retardant intended for use on uncoated wood and wood products, including fir, cedar, redwood, pine, straw, paper, cardboard, and other cellulosic materials.

Passes Class A Fire Rating, as per the National Fire Protection Association Life Safety Code, NFPA No. 101. Tested in accordance with ASTM E-84.

This fire retardant is an extremely deep penetrating material that can be applied during various stages of wood processing prior to any coating or sealant being used. Upon exposure to heat and flame, a carbon char and a very thin foam form on the surface of the wood as a fire, heat and smoke barrier.

Suitable for use on interior or exterior wood construction materials. For exterior wood, protect the treated wood from exposure to moisture until topcoats have been applied. Wood treated for interior environments require no special precautions prior to its use unless it is exposed to moisture.

Surface Preparation

Surface to be treated should be clean and free of contaminants such as wax, dust, dirt, oil and grease. Previously coated wood should be stripped to bare sound substrate prior to treatment.

Application

Mix thoroughly before application. Apply evenly with brush, roller, airless or conventional air spray equipment at the rate of 150 to 350 square feet per gallon. Alternatively, this product may be applied by dipping or vacuum coater.

Clean Up

This waterbased fire retardant can be washed off with hot soapy water.

Product Information

Physical Properties

Type:	Aqueous Intumescent
Solids (wt. %):	42.0 ± 2.0
Weight per Gallon:	10.0 ± 0.2 lbs.
Reducer:	Do Not Dilute
Air Dry (to touch):	45 minutes
Air Dry (to recoat):	2 hours
Flash Point:	None
VOC (as Packaged):	0.27 lbs./gal. / 33 g/l ¹
VOC (AIM):	0.85 lbs./gal. / 102 g/l ¹
VHAP (wt.%):	0
HMIS:	1, 0, 0, B
Shelf Life:	6 months
D.O.T. Class:	Not Regulated

Precautions: When topcoating this fire retardant, make sure that the coating being used is not flammable and does not negatively affect the fire resistance properties. Wood moisture content should be 5 - 15% prior to treatment.

Field Test: Treat a 4" by 12" wood sample and let cure for a minimum 24 hours. Place in a vertical position. Using a butane lighter or match, apply the flame to the lower portion of the treated sample for 10 seconds then remove the ignition source. If the sample chars but does not support flame after torch is removed, the application is successful. The flame should self-extinguish in 2 seconds or less. If flame continues for more than 2 seconds after the ignition source is removed, re-treat per the instructions and re-test.

NOTE: All information provided is typical (as formulated) and will not represent exact values for every product.

The information contained herein is based on tests and reports considered reliable but is presented without guarantee or responsibility as to the applicability or correctness of this information of the suitability of our products whether used singly or in combination with other products. The products referred to above are sold without warranty, express or implied.

¹Data found on the standard format CPDS, and calculated using NESHAP required Method 24 testing. VOCs are calculated as applied – subtracting the exempt solvents by weight only. Receipt of this document does not replace or supersede CPDS documentation.

²AIMs calculation of VOC – exempt solvents subtracted by weight and volume.

MSDS & CPDS Sheets Available Upon Request

Rev 1/2013 (Supersedes All Previous Revisions)