



COMPLIES WITH BELOW AS OF 05/10/2018			
OTC	YES	CalGreen	YES
SCAQMD	YES	Leed NC-v 1.2 EQc-4.2	YES
CARB	YES	VOC	<36g/l

FIREFREE® CLASS A

FfA meets the Class "A" rating with 6 mils dry. It also complies with the extended 30 minute test.

TECHNICAL DATA SHEET

PRODUCT INFORMATION

Firefree® Class A ("FfA") is a single component, self-priming, flame retardant paint that provides "Class A" ratings per ASTM E 84 and ASTM E 84, 30 minute extended. These standards involve fire retardant tests which measures a product's ability to slow down horizontal flame spread and smoke development.

FfA is listed and inspected by the International Code Council ("ICC"). FfA is safe and eco-friendly with low VOCs (<36gr/liter) which is extremely low compared to the current EPA regulations of 250 gr/liter (per ASTM D3960).

RECOMMENDED USE

FfA can be applied over most combustible materials, including oriented strand board (OSB), plywood, wood joists/trusses, wood paneling/ sheathing and other associated lumber where a fire retardant is needed to slow the spread of fire.

As a results of its' superior fire retardant performance, FfA provides significant material and labor cost reductions, resulting in significant savings when compared to other retardant materials.

Recommended use in both new, retrofit and defective construction (residential, commercial, industrial and government), insulation and transportation. The projects using our products include historic properties, schools, health care (hospitals, assisted living), apartments, condominiums, highrises, hotels, stores, restaurants, oil and solar facilities, government facilities, military applications, and facilities, transportation (aerospace, aviation, light rail, maritime, energy).

FfA is a water based coating designed for interior use. However, FfA can be used in an exterior application as part of the Firefree Exterior System, in strict compliance with Firefree's specifications (contact Firefree for more information on the Firefree Exterior System).

FfA comes is a white, satin finish. If a different color or finish is desired, FfA can be top coated with most premium paints to achieve the desired color and finish. For large orders (>200 gallons) FfA can be tinted by Firefree. Please contact Firefree for such custom tinted orders.

APPLICATION

FfA is a water-based latex paint and its application is similar to applying a regular water-based latex paint (except for the recommended thickness which needs to be precisely complied with for adequate performance). FfA can be brushed, rolled or sprayed using an airless

spray gun. Additionally because of its high percentage of solids, it will have an excellent spread rate and coverage. See attached separate Application Instructions.

KEY FEATURES/CHARACTERISTICS

- Most economical fire retardant paint
- High performance: Meets all ASTM E-84 requirements
- ICC listed, ESR4271
- Eco-friendly
Meets all ASTM D5116 requirements
Can earn LEED credits by meeting EQ credit 4.2: low-emitting material paint and coatings
- Color: White • Finish: Flat
- Easy to use and apply
- Usable on various combustible materials

TESTING RESULTS

ASTM E-84, 10 minute flame spread

DFT/WFT Application	FSI/SDI Results*	Coverage rate per gallon
6 mils dry (9 mils wet)	FSI-20 SDI-90	178 ft ²
10 mils dry (15 mils wet)	FSI-5 SDI-30**	106.5 ft ²

ASTM E 84, Extended 30 Minute Duration Test

DFT/WFT Application	FSI/SDI Results*	Coverage rate per gallon
8 mils dry (12 mils wet)	FSI-0 SDI-45**	133.5 ft ²
20 mils dry (30 mils wet)	FSI-0 SDI-0**	53 ft ²

*Indexes: FSI (Flame Spread Index) SDI (Smoke Developed Index)

** Meets the smoke index ≤50 for plenum spaces

Based on the results obtained from the 30-Minute Extended test, Firefree Class A showed minimal char damage, proving FfA's ability to help maintaining the structural integrity of the wood materials during a fire. Please refer to the fire test data for more information.

TESTING LABORATORIES:

QAI Laboratories, Inc. Accredited IAS www.iason-line.org third party fire testing laboratory, certification # TL-220.

Accredited ISO/IEC 17025, certification # TL-383

Listing: California State Fire Marshal (CSFM), Listing No. 2280-2112

FIRE SAFETY

For various reasons, including (i) the very different circumstances that may exist from one fire to another, (ii) the differences between conditions in an actual fire and laboratory conditions in which testing is conducted, and (iii) the inherent variability of fire tests, passing a laboratory test or certifying/labeling FfA for use in specific assemblies/systems does not mean that the same application of FfA will necessarily provide an equivalent protection or the same result in an actual fire or in a new laboratory test. Furthermore, FfA is to be used only as a component of complete fire retardation systems for the whole structure. It will only contribute to slowing fire spread for the area where it has been applied and will not, by itself, prevent a fire from starting or continuing. The amount by which FfA retards a particular fire will depend, among other things, on (i) the amount of FfA applied, (ii) the conditions of the other elements of the assembly incorporating FfA, and (iii) the conditions of the actual fire itself. Product will not make a fire any less dangerous to persons or property. Firefree cannot guarantee that loss or injury will not be suffered by persons or property. It is the sole responsibility of the applicator to ensure that FfA has been applied in accordance with the application directions. It is the responsibility of the occupier to ensure the paint is not cracked, chipped or peeling.

LIMITED WARRANTY

Firefree Coatings, Inc. ("Firefree") provides the following limited warranty for Firefree Class A ("FfA" or "Product"). Please read the warranty below carefully as it contains important information from the manufacturer.

For a period of ten (10) years from purchase, FfA will not crack, peel, or chip if properly applied to a properly prepared and approved surface and if properly maintained. If FfA fails to meet the terms set forth above, Firefree will provide, at no charge, a quantity of FfA sufficient to repaint the surface affected. **This is the exclusive remedy for all warranty claims. This warranty specifically excludes labor or costs of labor or incidental or consequential damages associated with the use of this product.**

In the event of a warranty claim, the claimant must notify Firefree in writing of the defect promptly following discovery and must submit proof of purchase, including the date of purchase, proof that the recommended thickness was applied, and proof of the defect, including the date of discovery. Firefree reserves the right to inspect any painted surface to which the warranty claim applies.

This warranty will be void if the surface is (a) treated by any abrasive process or material (other than normal sanding before application of the Product), (b) exposed to any biological solvent or caustic chemical or agent, (c) altered or repaired, or (d) exposed to exterior weathering, unless, and only if, it is covered by the Ff Exterior Topcoat, in strict compliance with Firefree's specifications. The warranty will also be void if the Product is; (i) diluted or adulterated, (ii) mixed with any other product, (iii) not stored per Firefree's instructions, (iv) not applied in the required uniform thickness per Firefree's specifications, (v) not inspected in accordance with Firefree's instructions, or (vi) used after two (2) years from the date of purchase.

The manufacturer expressly disclaims any and all warranties, express or implied, of merchantability or fitness for any particular use. For further information, please call 888-990-3388/ 415-459-6488. Refer to Safety Data Sheet (SDS) for further safety and handling information.

ABOUT THE COMPANY

Firefree Coatings, Inc. is the leading developer of high-quality fire retardant and fire resistant intumescent coatings that will help reduce the spread of fire, minimize smoke and toxic gases that would occur during a fire, thus giving occupants extra time to evacuate a building safely and limiting destruction of property. Our products are tested at third-party accredited International Accreditation Service (IAS) testing laboratories.

Firefree Coatings is deeply committed to human safety and environmental issues and is strongly positioned to meet the increasing demand for fire safety for commercial, governmental, residential and other markets. Firefree Coatings is a member of NFPA, ICC and ASTM E-05 Committee.

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