

FIRESHIELD

FIRE RETARDANT PAINT

TDS – FIRESHIELD | Rev. 01 | 24-Mar-2026



DESCRIPTION

FireShield is a water-borne, flame retardant coating designed to inhibit the spread of flame.

RECOMMENDED FOR

Its use is recommended for residential, commercial and industrial projects where a Class A fire rating is required.

KEY FEATURES

Cost efficient: because of its' superior fire retardant performance, only a thin layer of COLORTEK FIRESHIELD will be required. As a result, COLORTEK FIRESHIELD provides significant material and labor cost reductions, resulting in significant savings compared to costs associated with other fire retardant coatings.

Easy to use: COLORTEK FIRESHIELD is a high quality, non-toxic, water based retardant paint with excellent adhesion and durability and is easy to apply by brush, roller or sprayer.

Versatile: COLORTEK FIRESHIELD can be applied to a wide range of combustible materials and assemblies including oriented strand board (OSB), plywood, dimensional lumber, wood joists and trusses, wood paneling and sheathing, and associated lumber.

PHYSICAL PROPERTIES

Type	Liquid	
Flash Point	NA	
% Volume Solids	43%	
Viscosity (Krebs Unit)	115 @ 25°C	
Recommended Film Thicknesses / Coverage	See Performance section	
Drying Time	At 20°C, COLORTEK FIREPROOF dries to the touch in about 60 minutes under normal conditions.	
Fire classification	Class A	
Flame spread index	0	ASTM E 84-23d
Smoke development index	20	
Spreading rate	8 m ² /Kg per coat. 2 to 3 coats recommended	
Dilution	10-20% using clean water	
Dry to recoat	2-4 hours	
Full cure	7 days	
VOC	<36 g/L	
Bases	White, clear & N	

FIRE RETARDANT TESTING

FireShield was tested based on the following standards

ASTM E-84 (NFPA 255, UL723) Steiner Tunnel Test

The ASTM E-84 test is used as a means of measuring flame spread and smoke over a horizontal surface for a period of 10 minutes with an 80kw energy source, resulting in either a class A, B or C rating. COLORTEK FIREPROOF Class A has successfully tested to meet all code requirements accepted in accordance with ASTM E-84.

British Standard 476 Part 6 & 7

This test determines the performance of a product when it is subjected to the conditions of the test specified in BS 476 Part 6 and 7 "Fire tests on building materials and structures, method for fire propagation for products".

BS 476: Part 6: Specifies a method of test, the result being expressed as a fire propagation index that provides a comparative measure of the contribution to the growth of fire made by an essentially flat material, composite or assembly. It is primarily intended for the assessment of the performance of internal wall and ceiling.

BS 476: Part 7: Specifies a method of test for measuring the lateral spread of flame along the surface of a specimen of a product orientated in the vertical position, and a classification system based on the rate and extent of flame spread. It provides data suitable for comparing the performances of essentially flat materials, composites, or assemblies, which are used primarily as the exposed surfaces of walls or ceilings.

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PERFORMANCE

STANDARD	DRY FILM THICKNESS	FSI (Flame Spread Index)	SDI (Smoke Developed Index)
ASTM E-84	100 microns dry – 300 microns wet	0	20
ASTM E-84 Extended 30 minutes	100 microns dry – 300 microns wet	0	20

Classification: Class A

Third party test report is available upon request.

SURFACE PREPARATION

All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, bond-breakers and other contaminants. Remove all loose, peeling, or chalky paint by sanding, scraping, or any other appropriate methods. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded smooth and dusted clean and primed with a suitable Colortek primer.

New plaster or masonry surfaces must be allowed to cure (28 days) before applying base coat. Cured plaster should be hard, have a slight sheen and a maximum pH of 10. A soft, porous or powdery plaster indicates improper cure. Knife off any protrusions and prime the plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles.

CAUTION: Scraping or sanding surfaces of older buildings may release dust containing lead or asbestos. EXPOSURE TO LEAD OR ASBESTOS CAN BE VERY HAZARDOUS TO YOUR HEALTH. Always wear appropriate personal protective equipment during surface preparation and finish cleanup of any residues by water-washing all surfaces.

PRIMER SYSTEMS

Surface	RECOMMENDED COLORTEK PRIMER
Drywall	Colortek Primer
Porous Masonry	Colortek Sealer, Colortek Primer
Non-Porous Masonry	Colortek Primer, Colortek Undercoat
Wood	Colortek Undercoat
Ferrous Metal	Colortek Adhero, Colortek SX47 StopRust
Non-Ferrous Metal	Colortek Adhero, Colortek SX47 StopRust

APPLICATION CONDITIONS

Do not apply at temperatures below 5 °C or when rain is expected.

At 20°C, FireShield dries to the touch in about 60 minutes under normal conditions. Drying times are dependent upon several factors: Temperature - Air movement - Humidity -Thickness of product - Method of application.

APPLICATION METHOD

Stir well. Apply using brush, roller or airless spray. For brush application, a fully loaded brush should be used. A laying on technique will reduce the brush marking. A short nap roller can be used but this may result in a slightly textured finish.

Wait for surface to dry before applying a second coat.

PACK SIZE

	White	Clear	N
1 US Gallon (kg)	5	3.5	4.5
1 US Drum (kg)	25	N/A	N/A

SHELF LIFE

24 months from the date of production.

STORAGE AND HANDLING

Care should be taken to avoid spillage. Store in a dry area. Protect from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

SAFETY

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap and water. In case of eye contact, flush immediately with water for at

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least 15 minutes and seek medical attention immediately. If you have trouble breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

CLEANING

Remove as much leftover product as possible from the application equipment before cleaning. Clean equipment immediately after use with warm soapy water and rinse thoroughly. Do not empty product into drains or watercourses.

TECHNICAL ASSISTANCE

Available through your local COLORTEK® Design Center or through your COLORTEK PAINTS® authorized distributor. For the location of the retailer nearest you, email us at info@colortek.eu or check our website www.colortek.eu.

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2015, Certificate LB18/234269. The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted based on the information supplied herein.