



Manufactured In The USA

Product Data Sheet

Flame Safe™ Technology

FireTek Flame Safe Reactive Fire Safety Barrier Intumescent (FSBI)



General Description: FireTek (FSBI) or FireTek, is an easy to apply, single component water-based acrylic latex coating. Firetek is formulated with proprietary blend, cutting edge **Flame Safe Technology**. FireTek can be used to protect a multitude of substrates including, structural steel, drywall, spray polyurethane foam insulation, aluminum, dimensional lumber, trusses, manufactured wood products, HDPE wood panels, concrete, stucco, plaster, solid doors and much more. FireTek can also be used on conduit, structural decking and cladding systems.

Technical Data:

Color - White	Can be tinted to medium base colors	Weight Solids	68% (+/- 1%)
Specific Gravity	1.26	Volume Solids	60% (+/- 1%)
PH Range	8.0 - 9.0	Viscosity	110 120 KU
Weight/Gal	11.4 lbs	Flammability	Not Flammable
Hazardous Ingredients	N/A	VOC (Less Water)	0 zero

Application Conditions:

FireTek can be applied by spray, roller, or brush. Spray application is the recommended method to best achieve the required dry mil thickness. FireTek should not be applied when the surface to be coated, is less than 50° F (10° C) or less than 15° F (-9° C) above current or forecasted dewpoint. Increased humidity levels may affect FireTek dry times. FireTek is best applied when ambient temperatures are between 50° F (10°C) and 95° F (35° C). A primer is required for all substrates that have not been previously coated (bare exposed substrate). Consult manufacturer for substrate application and a list of approved primers. No primer is required for previously painted substrates where existing coatings are sound and in good condition. If existing coating surfaces are glossy, surfaces must be primed or completely deglossed prior to application of FireTek. Prior to complete surface application, apply a test sample of Firetek to ensure for proper adhesion. It may be necessary to apply an adhesion primer to surfaces prior to application of Firetek. Firetek is to be applied by certified applicators to ensure that proper application procedures are met.

Drying Times, Ambient Temperature and Humidity Conditions:

With water-based acrylic latex coatings, drying time is determined by ambient temperature, humidity and how thick (wet mils) coating is applied. On average with temperatures between 50° (10° C) and 95° (35° C), humidity below 80% and material application between 20 to 22 wet mils, coatings are dry to the touch within 3 hours, are completely dry in 6 - 7 hours and are fully cured in 72 - 82 hours. Product is active and ready to perform as soon as it is hard dried. DO NOT apply additional coats of FireTek until previous applications are completely dry. Applying additional coats of FireTek too soon, over existing applications that still have moisture present, can cause mud-cracking, blistering and adhesion issues where delamination can occur. A recommended finish top coat can be applied after the total required mil thickness of FireTek has been achieved and completely dried.

Fire Safety Barrier Intumescent (FSBI) Flame Safe Technology Advantages:

- Outstanding protection from Fire and Heat
- Easy to Use (Save Labor Cost)
- Long shelf life
- Thin, smooth architectural finish
- Minimal time for extra coat applications
- Interior or exterior application (exterior applications require a finish coat)
- Economically priced
- Zero VOC
- Easy clean up
- Fast drying formula - Non Toxic, Nondermatic and Noncarcinogenic acrylic latex
- Provides fire-resistant barrier on a variety of substrates
- Can be pre-applied to steel and other materials during fabrication
- Easy to repair



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Testing Laboratories:

FireTek Coatings are Tested by Accredited Third Party Fire Testing Laboratories.

Precautions:

- Do not mix, thin or dilute FireTek with water or any other materials.
- Do not allow FireTek to freeze. Discard, do not use frozen materials.
- Do not store at temperatures above 105° F (40° C).
- Do not expose FireTek to rain, snow, dew or extreme humidity until a top coat is applied.

Dry Film Thickness and Spread Rate Per Gallon:

The dry film thickness will vary depending on the fire rating being required and the material/substrate being coated. There is no set coverage rate per gallon that applies to all assemblies. In most cases to measure the dry film thickness required, use a wet film thickness gage to monitor the wet film thickness during application.

Dry mil test example:

For a 1 hour rated 5/8" drywall Type X. Apply FireTek at a rate of 20-22 wet mils, achieving a total thickness of 12 dry mils. Coverage application rate to achieve 12 dry mils (Per the E- 119, 1 hour test performed by Intertek), was 70-90 sq. ft. per gallon. Includes approximately 10% waste.

Application Instructions:

Depending on the substrates, application procedures will vary. Contact FireTek International for proper application procedures for your specific substrate to be coated.

Application Example:

For a 1 hour rated 5/8" drywall Type X. Apply 1 labor coat vertical/horizontal pattern "wet on wet application". Tip size required: .015 - .021. Do not thin material.

Preparation procedures:

General

Do not paint over dirt, chalk, rust, scale, grease, moisture, or any condition that could cause issues with product adhesion, performance, or detrimental to forming a long lasting durable finish.

Primed Surfaces

For Glossy surfaces, gloss needs to be dulled or apply a fast drying primer such as Xim or equal for proper adhesion. When applying an enamel finish over FireTek, first apply a recommended primer. If applying wallpaper over FireTek, it is recommended to first apply adhesion primer.

Note: It is always recommended to do an adhesion test to insure compatibility.

Lighting/Ventilation

Sufficient lighting and ventilation must be provided to ensure proper application and drying procedures both during and after application. In enclosed spaces, there should be a minimum of four air exchanges per hour until the coating is dry.



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Equipment:

Spray Equipment

It is recommended that FireTek be applied with an electric, pneumatic, or gas powered airless spray pump capable of spraying at a minimum of 3,300 psi to 4,400 psi.

Hose

Use a minimum 3/8" diameter hose, properly rated and compatible with the pump capacity. All hoses must be clean and free of all previous materials, prior to application of FireTek. Note: It may be necessary to remove pump filters.

Brush and Roller Application:

Spray application is the recommended method to best achieve the required dry mil thickness. If using a brush, a high quality latex brush is recommended. If using a roller, a good quality, anti-shedding, high capacity Mohair roller is recommended. All applications must be frequently tested with mil gage to ensure proper material coverages for the recommended wet mil/dry mil ratio.

Packaging:

5 gallon pails. Larger packaging options available. Contact distributor for packaging and shipping information.

Health Precautions:

Inhalation of vapor or mist can cause headaches, nausea and/or irritation of nose, throat and lungs. Prolonged or repeated skin contact may cause skin irritation. Avoid getting material on skin, clothes and/or in eyes. Proper clothing, gloves, masks and respirators are strongly recommended. Avoid breathing mist and/or vapors. If material gets in eyes, flush with warm water. Contact physician if blurring persists. It is the responsibility of the applicator to follow all safety precautions and procedures.

Disclaimer:

Purchaser's sole and exclusive remedy against the manufacturer of FireTek, shall be limited solely to the replacement of defective material or a payment by the manufacturer in the amount equal to the cost of the original material.

Contact: FireTek International, Inc. (USA)
10300 W. Charleston Blvd. Ste 13-174
Las Vegas, Nevada 89135

1-844-FireTek
Info@FireTekInternational.com
www.firetekinternational.com