



FB-520S

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DESCRIPTION

The term "Pyro-Tumid" designates swelling and charring. When **FB-520S** is exposed to heat or fire (usually above 400° F or 204° C), the coating begins to char. As it chars along the coated surface it forms pockets of air between the coating and the surface. These air pockets add a tremendous amount of protection by creating a form of insulation.

Unlike most intumescent coatings, **FB-520S** Pyro-Tumid coating will not crack under slow burn conditions. The element of a slow burn and slowly escalating heat represent the majority of industrial and commercial fires. When this occurs, heat can pass through the cracks between the coating surface and the surface to which the coating is applied, destroying the integrity of the substrate.

Although intumescent coatings have been available for a number of years, it is important to note that not all intumescent products are the same as the heat tolerance varies significantly.

For further protection, using **Temp-Coat 101S** together with **FB-520S** not only protects the substrate but also increases the thermal capacity of the coating. When **FB-520S** is applied to one side of a substrate and **Temp-Coat 101S** is applied to the other, in the event of a fire, the heat on the opposite side from the fire is significantly reduced, offering protection to personnel, facilities, cargo, or other valuable assets.

FB-520S features and benefits include:

- Is labor saving
 - Is latex based
 - Is non toxic
 - Is environmentally responsible
 - Is fire resistant
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- Can be used on structural steel
 - Can be used as a primer or finish coat
 - Can be tinted a light / pastel color
 - Can be applied by brush, roller or spray
 - Can be used on all wood based building materials

APPLICATION

FB-520S is a latex-based pyro-tumid fire resistant coating, non-toxic, labor saving and environmentally responsible. **FB-520S** can be used on all wood based building materials, roof decking and trusses, floor joists and under sub-flooring, dry wall, anywhere fire proofing is needed.

Construction and maintenance cost savings for combustible roof cavities and concealed spaces can often be achieved using **FB-520S**. Building codes may allow the elimination of sprinklers in construction in some jurisdictions if proper materials are used. Check with SCI about your specific application for recommendations on appropriate coating thicknesses.

All surfaces must be prepared in accordance with good painting practices (clean, dry and sound surfaces). Apply **FB-520S** by using a brush, roller, or spray. Apply uniformly to entire surface. Ambient and surface temperature must be maintained at greater than 45° F (7° C) during application and for at least 48 hours following application.

Use clean warm water and soap to clean equipment and tools before product dries.

SPECIFICATIONS

Boiling Point:	212° F (100° C)
Specific Gravity (H ² O =1)	1.29
Vapor Density:	N/A
Freezing Point:	32° F (0° C)
pH: (1% solution):	Neutral
% Volatiles / Volume:	35%
Vapor Pressure:	N/A
Odor Threshold (PPM):	N/A
Coefficient Water / Oil Distribution:	N/A
Appearance:	White, creamy, free flowing liquid

FB-520S has been tested in Australia and the U.S.A. utilizing Fire Performance Test ASTM E-119

Independent Lab testing demonstrated that when a 1/4" (6mm) dried film thickness of **FB-520S** is applied to the surface of 1/2" (13mm) plywood, a 1 hour burn at up to 1,700° F (927° C) is achieved without scorching the plywood.

Store in cool dry area away from direct sunlight and keep from freezing. **FB-520S** is latex based and cannot be in continuous contact with water. It can be protected by the use of paint or sealer.

WARRANTY

Limited Warranty: Southern Chem Industries warrants FB-520S as a fire retardant coating under normal use and installation conditions.

FOR HANDLING AND PRECAUTIONARY INFORMATION PLEASE REFER TO THE PRODUCT LABEL AND THE MATERIAL SAFETY DATA SHEET.

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