

The Alsa Corporation The Worlds Most Exotic Finishes 1213 E. 58th Place • Los Angeles, CA 90001 • USA • 323-581-5200 • alsacorp.com

PRODUCT DATA SHEET

ALSA INTUMESCENT FIRE BARRIER LATEX HS HIGH SOLIDS VERSION



General Description: ALSA PFB is a full-bodied latex, single component coating designed to protect a wide range of building materials including structural steel, aluminum, dimensional lumber, manufactured wood products, trusses, drywall, spray polyurethane foam insulation, HDPE wall panels, concrete, plaster, solid core doors and more. The product may also be used for conduit, decking and cladding. Refer to our architectural specification for more details.

Technical Data:

Color	White
 Specific Gravity 	1.35
pH Range	8.0-8.5
Weight/Gal	11.2 lbs (5.81 Kgs)*
 Hazardous Ingredients 	N/A
Volume Solids	68.3% (+/-2%)
 Weight Solids 	66.0% (+/-2%)
Viscosity	130 Kreb Units (+/-10%)
Flammability	Not Flammable
• VOC. (LESS WATER)	.01 GRAMS /LITRE (Nil)

*Does not include weight of packaging.

Application Conditions: ALSA PFB is designed to be applied by spray application and should only be applied by brush or roller for touch up purposes. ALSA PFB should not be applied when the relative humidity exceeds 80% or the surface to be coated is less than 40 F (5° C) or less than 15 F (-9° C) above the current or forecasted dew point. The product is best applied when ambient temperatures are between 50 F (10° C) and 95 F (35° C). While the product can be applied at lower temperatures, viscosity may be a problem and, if applied at higher than recommended temperatures, there may be a risk of runs or sags. Once applied and cured, extremely low or high temperatures should not be a problem. On combustible substrates such as dimensional lumber, manufactured wood (Oriented Strand Board, Particle Board, Plywood, etc.), Polyurethane foam, and drywall (GWB) a primer is not required but may be useful if:

Dimensional Lumber The wood is very old and/or dry and would likely absorb too much of the ALSA coating. Manufactured Wood The substrate is very old and/or dry or if the resin content is unusually high. Polyurethane Foam The foam is soy-based or made from other organics that emit a vegetable oil. Drywall (GWB) The drywall has been previously painted with oil-based (alkyd) paint or if you're not sure. On structural steel and other metals such as aluminum, copper, brass, or composites, -a primer is always required. No exceptions have been observed regarding what kind or brand of primer can be used. Even inexpensive shop primer has shown no incompatibilities. However, doing a test patch is always recommended with any new combinations of primer and our product since it is impossible to have tested every product from every manufacturer.

Drying & Cure Times at Standard Ambient Temperature and Humidity: As with any latex coating, drying time is always a function of ambient temperature, ambient humidity and how thickly the coating was applied. However, at 60 F (15° C) with a relative humidity of 70%, a 20 mil (.50mm) wet coat should be dry to touch within 3 hours, completely dry in 6 hours and dried hard enough to handle in 8 hours. While our specifications call for a 72 hour cure time, the product is active as soon as it is hard dried. <u>DO NOT</u> apply additional coats until you are sure the underlying coats are completely dry. Apply additional coats on top of product that still has moisture may cause the finish to crack and, if enough moisture is trapped under a surface film, the entire finish may delaminate and fall off. Top coating is recommended and permitted after the total number of required thickness of ALSA has been applied and completely dried.

HS Product Advantages:

- · Exceptional protection from heat and fire.
- · Smooth, thin, architectural grade finish.
- · Top coat with whatever you prefer alkyds, acrylics or lacquer.
- Big Plus -with HS apply half as many coatings with the same coverage.
- · Nontoxic, nondermatic and noncarcinogenic latex.
- · Can be pre-applied to steel and other material during fabrication and is easy to repair.
- Designed specifically for sprayer application. No special equipment is required. Any qualified contractor can apply it.
- Interior or exterior application (use an exterior grade top coat for exterior applications).
- Economically priced.
- · Fast drying and curing times.
- · Cleans up with soap and water.
- · No shelf life limitations and does not need to be periodically reapplied.

Required Coating Thickness: Current recommendations are a maximum wet film thickness of 36 mils, drying to 24 mils. The big advantage is impressive savings in application and labor costs and time. For structural steel applications, refer to our calculator to determine required thickness for various substrates, densities and required ratings. Contact a qualified ALSA representative with further questions.

General Guidelines for Coating Thickness Requirements:

Dimensional Lumber -Up to 2 hours depending on the size of the wood and the thickness of ALSA applied. (20 mils/.50mm dft) Manufactured Wood -Up to 2 hours depending on the size of the wood and the thickness of ALSA applied. (20 mils/.50mm dft) Polyurethane Foam -Meets the 15 minute thermal barrier requirements of IBC-2603 (15 -20 mils/.38 -.50mm dft)

Drywall (GWB) - ALSA adds 55 minutes to any type of GWB. (15 mils/.38mm dft)

Structural Steel – ALSA provides up to 3 hours restrained depending on the W/D, Hp/A or A/P of the steel and the thickness of ALSA applied. (8 to 200 mils / .20 3mm dft refer to our steel calculator)

Aluminum Columns have been tested for 2 hours. Aviation grade .025 panels for an estimated 4+ hours. (20 to .50 dft)

All applications are enhanced by 25% to 32% when top coated with a finish coat of your preference. Test results were based on comparative performance with a top coat of oil-based alkyd.

Precautions:

Do not mix, thin or dilute the ALSA product with anything else. Do not allow the product to freeze. If frozen, the texture will be obviously different. Discard it. o Do not store in temperatures above 105 F (30°C) for extended periods of time. Do not expose the product to rain, snow, dew or extreme humidity until top coated.

Warranty: ALSA products are warranted for ten years from date of application against defects in workmanship and materials. Proof of purchase (store receipt and bar code from can) is required for warranty claims. Claims are limited to replacement of product only. The manufacturer accepts no responsibility for other losses or claims and the users waives such claims by breaking the seal on the can.

Testing: ALSA product are tested to a variety of standards such as UL, ULc, ASTM, NFPA, UBC, CEN, ISO, and others by the best independent fire testing laboratories available. ALSA uses Underwriters Laboratories (UL), Intertek, Western Fire Center, Southwest Research Institute (SwRI), Omega Point, Guardian Laboratories, SGS/USTesting, KTA, Materials Analytical Services, MAGI and more. All labs are certified, accredited and audited. Test results are available online at alsacorp.com or can be obtained on DVD by contacting our customer services department or your local representative.

Contact:

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