

Technical Data Sheet

No-Burn[®] Original and Original Mih

Product Description: No-Burn[®] Original and No-Burn[®] Original Mih are "Class A" water-based fire retardant coatings manufactured by No-Burn, Inc. No-Burn[®] Original and No-Burn[®] Original Mih are supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums. No-Burn[®] Original is also supplied in 32 ounce trigger-spray bottles (1 quart).

Use: Unfinished wood including: dimensional lumber, exposed wood, architectural woodwork, joists and miscellaneous porous surfaces.

Surface Preparation: Prior to the application of No-Burn[®] Original/Original Mih, the surface must be free from all deposits, including dust, dirt, oil, paint flakes scales, wax, etc. for the product to adhere properly to the substrate. No-Burn[®] Original/Original Mih should be at or above 40° F, prior to and during application. The substrate to be treated should be at or above 40° F, prior to and during application. Moisture content of the substrate must not exceed 19 percent during the application of No-Burn[®] Original/Original Mih. Essentially, the substrate to be coated must be porous and properly prepared to receive the No-Burn[®] Original/Original Mih.

Product Preparation: No-Burn[®] Original/Original Mih should never be allowed to freeze (32° F), should be stored between 40° F and 90° F, and should be kept out of direct sunlight. If you cannot verify that these conditions have been maintained, the product may need to be disposed of in accordance with the manufacturer's MSDS. Use the product as is; **DO NOT DILUTE**. Acquire recommended mixing and application equipment per the manufacturer's Technical Data Sheet and/or product label. For specific recommendations call the manufacturer.

Mixing: No-Burn[®] Original/Original Mih **must be thoroughly mixed before use**, in accordance with the manufacturer's recommendations. Shaking No-Burn[®] Original is ONLY permissible when packaged in a quart bottle; otherwise, No-Burn[®] Original/Original Mih should be mixed with a rotary mixer or drill, utilizing a power mixer wand, at or between 500-900 RPM, for a mixing time of **10 minutes** per 5 gallons.

***Shaking No-Burn[®] Original/Original Mih with a paint shaker, is NOT sufficient.**

***Mix No-Burn[®] Original/Original Mih with a Squirrel[™] 5 gallon power mixing wand or equivalent.**

If No-Burn[®] Original/Original Mih is mixed more than 24 hours prior to use, shake or mix it again, according to the manufacturer's instructions. No-Burn[®] Original/Original Mih may be tinted at a maximum rate of 1 oz. of No-Burn[®] Dye Concentrate per 5 gallons of No-Burn[®] Original/Original Mih.

Application: Methods of application for No-Burn[®] Original include airless sprayer, compressed air sprayer, trigger sprayer or brush. No-Burn[®] Original Mih may only be applied with an airless sprayer. It is commonly recommended that you use a tip with an orifice size in the range of .012-.017. Variations in spray pattern width and tip size may be required depending on the surface area and the substrate to which No-Burn[®] Original/Original Mih are being applied.

Interior Applications: No-Burn[®] Original/Original Mih should be at or above 40° F, prior to and during application. The substrate to be treated should be at or above 40° F, prior to and during application. Moisture content of the substrate must not exceed 19 percent during the application of No-Burn[®] Original/Original Mih. Remove previous finishes or sealer(s) and clear-away any dirt or grease. Sanding the substrate may be necessary. The surface must be free from all deposits, including dust, dirt, oil, paint flakes scales, wax, etc. for the product to properly penetrate into the substrate. Refer to appropriate mixing instructions utilizing the recommended application equipment. Overcoats need to be water-based with a pH of 7-8. Prior to the use of any overcoat, it is recommended that an inconspicuous area be tested for compatibility before widespread application. Compatibility may be noted as the overall satisfactory condition of the substrate once No-Burn[®] Original/Original Mih, and an overcoat have been applied. It is recommended to wear a respirator and protective eyewear when applying the products

Exterior Applications: No-Burn[®] Original should be at or above 40° F, prior to and during application. The substrate to be treated should be at or above 40° F, prior to and during application. Moisture content of the substrate must not exceed 19 percent during the application of No-Burn[®] Original. Remove previous finishes or sealer(s) and clear-away any dirt or grease. Sanding the substrate may be necessary. No-Burn[®] Original should be applied with caution to preservative treated lumber. Preservative treated lumber should have gone through the natural aging process, usually a year or two for most nominal lumber, prior to the application of No-Burn[®] Original. For exterior applications, No-Burn[®] Original needs to be overcoated with a high quality exterior sealer that is water-based and UV resistant. For further questions about the No-Burn[®] Original Exterior System, call No-Burn, Inc. Specific exterior top-coats may be recommended by the manufacturer upon request. No-Burn[®] Original Mih is not applicable for exterior applications.

Dry Time: Typically between 60 to 90 minutes, depending on the ambient temperature and relative humidity conditions. Allow No-Burn[®] Original/Original Mih to dry completely before the addition of a water-based top coat.

Maintenance: When No-Burn[®] Original is overcoated, in exterior applications only, special consideration should be paid to the overcoat's retreatment instructions and recommendations. Prior to the reapplication of an overcoat, No-Burn[®] Original may need to be reapplied. Contact No-Burn[®], Inc. for more information.

Clean-up & Storage: Soap and water. Store at or between 40° F and 90° F, and keep out of direct sunlight. Do NOT allow product to freeze. Dispose of remaining product per manufacturer's MSDS. To recycle pails visit, <http://www.wbdg.org/tools/cwm.php>.



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Typical Physical Properties

Original:

Finish/Color:	Flat/Transparent
VOC:	0 grams/liter
pH:	8.7
Specific Gravity:	1.17
Boiling point:	212F
Freezing Point:	32F
% Volatile by Volume:	68%
Flash Point:	>212F
Clean-up:	Soap and water
Cure time:	24 hours
Shelf life:	36 months
Drums:	55 gallons, 605 lbs
Pails:	5 gallons, 55 lbs
Quarts:	32 ounces

Typical Physical Properties

Original Mih:

Finish/Color:	Flat/Transparent
VOC:	14.38 g/L
pH:	8.7
Specific Gravity:	1.17
Boiling point:	212F
Freezing Point:	32F
% Volatile by Volume:	68%
Flash Point:	>212F
Clean-up:	Soap and water
Cure time:	24 hours
Shelf life:	36 months
Drums:	55 gallons, 605 lbs
Pails:	5 gallons, 55lbs

For more information, please contact:

No-Burn, Inc.'s Corporate Office

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www.noburn.com

Limited Warranty Information:

No-Burn, Incorporated warrants that the No-Burn[®] formula will be manufactured to the same specifications and quality, and will perform equally to the tests performed by the independent laboratories when properly applied by a certified No-Burn[®] applicator. Warranty coverage is limited solely to the cost of product purchased hereunder and specifically excludes incidental expenses and consequential damages. All implied warranties from No-Burn[®] Incorporated are excluded. There may be situations and materials for which No-Burn[®] products will not prevent a fire from igniting or retard the progress of a fire.