

Sapstain and Mold Control Concentrate (Patented & Patents Pending)

Product Data Sheet

Dilute with Water Before Using  
Fully dilute before mixing with additives  
FOR INDUSTRIAL USE ONLY

## solutions for bright lumber®

### PRODUCT USE

The Workhorse® product contains a unique combination of three active ingredients and several adjuvants that work synergistically to provide resistance against sapstain, mold, mildew, decay and other fungi that occur during storage, seasoning and transportation. Water diluted working solutions of Workhorse® Concentrate may be used to protect freshly cut (green), partially seasoned or dry wood products including sawn lumber, domestic logs, export logs, veneers, chips, crossies, pallets, wood packing and other wood products requiring protection. Workhorse® is effective on hardwoods and softwoods, as well as engineered and composite wood products.

For the best protection of freshly cut (green) wood against sapstain and mold, the reduction of lumber staining using surface treatments of dilute Workhorse® must be combined with an efficient log and lumber management program to prevent or minimize pre-infection of fungal growth. Pre-infections lead to staining beneath the wood surface. This product may be used to reduce unsightly surface emergence of stain and mold fungus from pre-infected areas.

For the best protection of freshly cut (green) and dry wood products against mold, the reduction of mold incidence must be combined with efficient wood product storage, inventory and transportation programs to prevent or minimize mold growth.

Approved additives for beetle control, insect control, iron stain control, moisture control, enzymatic brown stain control, mildew control and other protectants, colorants and brighteners may be added to dilute Workhorse® solutions to provide for additional performance needs.

Contact your local Kop-Coat specialist to help you to determine the best products and programs to meet your performance requirements.

### MIXING INSTRUCTIONS

Carefully read the product label and MSDS before using and follow all written Environmental, Health, Safety and use instructions.

Fully dilute and completely mix the Workhorse® Concentrate in water to the desired end use concentration before using.

Add and completely mix approved additives with only fully diluted Workhorse® solutions to avoid performance failures.

Contact your local Kop-Coat specialist to select approved additives. Carefully read additive product labels and MSDS before using and follow all written Environmental, Health, Safety and use instructions.

Contact your local Kop-Coat specialist to help you to conduct tests to determine optimal concentration of Workhorse® and additives for your performance requirements. Dilution rates will depend on seasonal conditions, exposure during seasoning and storage and transit, treating methods, wood species, wood condition and performance requirements.

### APPLICATION

Fully immerse or spray wood products and ensure that all surfaces are covered and treated with dilute Workhorse® solutions. Fungal stain or mold can begin and spread in any unprotected, uncovered area of wood surface. Application rates, gauge retentions and measured performance solids retentions on the wood product must be monitored for best performance.

Contact your local Kop-Coat specialist to help you to determine the optimal application method and the performance application monitoring program for your performance requirements.

### PERFORMANCE COMPOSITION

3-Iodo-2-Propynyl	
Butyl Carbamate (active).....	1.10%
Propiconazole (active) .....	1.10%
Diiodomethyl- para-tolylsulfone (active).....	0.30%
Trialkyl Nitrogen Oxides (TANO®s).....	11.67%
Trialkyl Nitrogen Salts (ACPs™).....	23.00%
Total performance solids.....	74.77%

### ACCEPTANCE

Workhorse® is registered with the US EPA for sapstain and mold control on lumber and other wood products (EPA Reg. No.60061-126; EPA Est. No. 60061-MO-1; Applicable State Registration).

Contact your local Kop-Coat specialist to determine which other lumber protectants and additives can be used in combination with this concentrate.

### CONCENTRATE PHYSICAL PROPERTIES

Weight per Gallon:.....	7.91 lbs/gal
Flash Point:.....	158 °F
pH (10%):.....	7.0
VOC*:.....	<0.1 lbs/gal
Freeze/Thaw Stable:.....	Yes
Minimum Storage Temperature:.....	35 °F
Max Storage Temperature:.....	115 °F

Physical properties of dilute solutions will vary based on additives and other components in end-use mixtures.

\*Check with local authorities on VOC designations.

### QUALITY CONTROL & QUALITY ASSURANCE

A field test kit is available to monitor the concentration of Workhorse® in both freshly mixed solutions and working treatment solutions. Contact your local Kop-Coat service specialist for test kits and other quality control and quality assurance methods and services.

\*Workhorse® is a registered trademark of Kop-Coat, Inc. Workhorse® is a patented and patent pending technology of Kop-Coat and contains patented technology licensed to Kop-Coat.



### STORAGE & DISPOSAL

Workhorse® Concentrate should not be stored near flames or heat sources. Diluted Workhorse® solution is not combustible.

Store and dispose of the product in accordance with all Federal, State and local laws and regulations. Never apply pressure to an empty container.

### ENVIRONMENTAL, HEALTH & SAFETY

Please refer to the product's label and Material Safety Data Sheet for this information.

**For medical emergencies,  
contact 1-800-548-0489**

### PACKAGING

- Bulk 3,000 to 30,000 gallons
- Totes 275 gallons
- Drums 55 gallons
- Pails 5 gallons

For more information contact:

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