

# Environment-friendly Coating Fungicide IPBC P5100

## ● Description

Fungicide IPBC P5100 is non-metallic fungicide which is effective against a wide variety of fungal organisms. It may be used to protect both paints and stains from the growth of fungal organisms on the film surface as well as a fungicide for cutting oils, textiles, paper coatings, inks, plastics, adhesives, and canvas and cordage. Fungicide IPBC P5100 is also used for wood preservation and wood protection in above ground applications

## ● Application & Use

Laboratory evaluation and field trials are suggested in order to determine the optimum levels and cost effective use for Fungicide IPBC P5100 in a given end application. Application areas include: paints and stains, cutting oils, wood, sapstain control, millwork, textiles, paper, inks, and adhesives.

## ● Physical Properties

The following are typical properties of Fungicide IPBC P5100 they are not to be considered product specifications

Appearance: .....	Off-white crystalline powder
Active Ingredient:3-Iodo-2-propynyl butyl carbamate .....	98% Minimum
Moisture .....	1.0 - 1.5%
Melting Poin C .....	68°
Solubility .....	Soluble in most aromatic solvents and alcohols

## Function/Activity

The following are suggested use levels for Fungicide IPBC P5100. Typical use levels are given for the various application areas discussed.

### Paint and Stains

Fungicide IPBC P5100 may be used as a fungicide in both aqueous and solvent based paints and stains. It should be added with good agitation at the end of the production cycle when processing temperatures are the lowest.

Fungicide IPBC P5100 will generally impart protection when used at levels of between

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## *BOR*

0.3-0.5% by weight of the total formulation. More may be required in hot, humid areas where mildew is a particularly severe problem, up to a maximum of 1% by weight of the total formulation.

For interior paints, because of the reduced fungal hazard, levels of 0.1-0.32% by weight of the total formulation are sufficient.

For wood protective stains which are used in both interior and exterior applications such as exterior siding, decks, lawn furniture, etc., levels of 0.3-0.5% are suggested, depending on the type of protection desired.

### Cutting Oils

Fungicide IPBC P5100 may be used in metal-working fluids to prevent fungal growth at concentrations of 0.03-0.3%. It should be added to the cutting fluid concentrate in amounts sufficient to yield the desired concentration of active ingredient in the diluted composition. It is suggested that biocide level be checked periodically as many cutting oils are unstable upon standing.

### Wood

Fungicide IPBC P5100 may be applied in solvent solutions or aqueous dispersions to new lumber, plywood, particle board, millwork, etc., to prevent the growth of fungi and sapstain. Fungicide IPBC P5100 is suggested for use on wood in above ground use only.

Treating solutions may be prepared by dissolving Fungicide IPBC P5100 in organic solvents or by creating a water emulsion. Levels of 0.3-0.5% are suggested depending on the type of protection required, conditions for end use, and the duration of protection required. All products should be field tested in order to insure that the most cost effective level of Fungicide IPBC P5100 is being used. Do not use on wood that comes in contact with food.

### Sapstain Control

For the prevention of the growth of stain and fungi on freshly sawn lumber, a concentration of 0.3% is suggested as a starting level.

Formulations will usually be based on aqueous dispersions and emulsions. Lumber should be dipped for a duration of one to three minutes in order to achieve the maximum penetration into wood.

For best results lumber should be treated within 24 hours after it is sawed.

### Millwork

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Fungicide IPBC P5100 is suggested for use on millwork, including door and window frames, exterior siding, and other construction lumber when it is important to prevent the growth of fungi on these materials. Wood treated with Fungicide IPBC P5100 does not change in appearance and may be coated when dry. For applications of this type, Fungicide IPBC P5100 may be applied from either organic solvent or water based formulations. These formulations may be applied by either dipping, spraying, or brushing. Suggested use level of Fungicide IPBC P5100 is 0.3-0.5% depending upon the type of protection desired. Fungicide IPBC P5100 is not suggested for wood surfaces which come into continuous skin contact.

#### Textiles

Fungicide IPBC P5100 may be used as a fungicide in both aqueous and solvent based coatings or dyes which are applied to the textile material.

Typical end use of these materials is in carpets, canvas and cordage, drapes and shower curtains. Fungicide IPBC P5100 should not be dissolved in the polar and vehicle portion of these coatings. Fungicide IPBC P5100 will normally impart protection to the substrate when added at levels of 0.05-0.5% based on the total formula weight. Not for use in fabrics for human wear.

#### Paper

Fungicide IPBC P5100 may be used as a fungicide in both aqueous and solvent based formulations to treat paper, such as for soap wrappers.

Fungicide IPBC P5100 should be added to the polar and vehicle components of the treatment formulation.

Fungicide IPBC P5100 will generally impart protection to the substrate when added at a level of 0.025-0.05% based on the total weight of the paper.

#### Inks

Fungicide IPBC P5100 may be used in aqueous based ink solutions for protection of these solutions against the attack of fungal organisms.

Fungicide IPBC P5100 will generally impart protection when used at levels of 0.05-0.5% based on the total formula weight.

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### Adhesives

Fungicide IPBC P5100 can be used as an additive to adhesive formulations to prevent the growth of fungal organisms in the material in both the wet stage and dry film.

Suggested levels are 0.025-0.5% based on the formula weight. Fungicide IPBC P5100 should be added to the polar and vehicle components of the formulation.

### Formulation Considerations

The information and data given herein are based upon tests and reports believed reliable and accurate, but are in no way guaranteed. No warranty, expressed or implied, is made or intended. The adoption for use should be based upon customer's own investigations and appraisals, and no suggestion should be construed as an invitation to use a material in infringement of patents.

- The use levels of Fungicide IPBC P5100 in formulated products is determined by the individual composition and end use pattern of the final system.
- White and light colored coatings should be checked for color stability on exposure and after heat aging.
- All suggested use applications should be evaluated for final product efficacy, color uniformity, and for pH, temperature and storage stability.
- Should yellowing occur during the drying cycle of exterior application coatings, it is generally transitory in nature

### Shipping & Packaging

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Fungicide IPBC P5100 is packaged in: Shipping Container Net Weight

Drums 55.15 lbs. / 25 kg

Drums 100 lbs. / 45 kg

### Product Safety & Additional Information

For handling, storage, health, and safety information and disposal procedures, as well as additional information, please refer to the Safety Data Sheet (SDS) and product label.

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