

ZENITIZE ADDITIVE



ADDITIVE THAT STOPS MICRO-ORGANISMS FROM GROWING

Zenitize is an anti-microbial additive stops micro-organisms from growing on the coated surfaces. This broad-spectrum fungistat is effective against a wide variety of fungal organisms like mold, mildew, and fungus.

Available in all Zen-Tek topcoat resin systems, like Synergy 200 and Zenix 300.

USES & APPLICATIONS

Zenitize offers excellent dry-film fungal protection in interior and exterior paints and stains and wood protective stains. It also provides excellent fungal control in adhesives, caulks, grout sealants, and joint cements.

ORGANIC SOLVENT-BASED SYSTEMS

Zenitize offers a broad-spectrum of protection against discoloration of the protective film due to fungi. Zenitize does not change the appearance of wood or have any influence on its coatability. Zenitize is compatible with most organic solvent-based systems.

FORMULATION CONSIDERATIONS

The use levels of additive in formulated products are determined by the individual composition and end-use pattern of the final system. The selection of the individual components of the formulation, the Pigment Volume Concentration level, the substrate to be coated, and the environment in which the coating will be exposed all have an influence on the amount of protection needed. Suggested use levels should be verified by field trials of the end-use product. This anti-microbial additive is dispersion and should be mixed to ensure homogeneity of the product prior to addition.



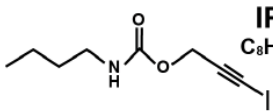
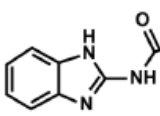
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PRODUCT DATA:

PHYSICAL PROPERTY	FUNCTION / ACTIVITY	SHIPPING & PACKAGING
Appearance: Pale, flowable dispersion	Paints and stains: 0.5% – 2.3 Wt/Wt	Drum 110 lbs / 50 kg
Specific Gravity, 25°C: 1.1	Wood protective stains: 0.5% – 2.3 Wt/Wt	Drum 441 lbs / 200 kg
% Actives: 20.0	Adhesives, caulks, grouts, and sealants: 0.3% – 1.5 Wt/Wt	One-Way Tote 2205 lbs / 1000 kg
Odor: Mild characteristic		

The actual level of this additive required for optimum effectiveness in formulated products is dependent upon the individual composition and end-use pattern of the final system. Suggested use levels should be verified by field trials of the end-use product.

ACTIVE SUBSTANCES

5%	3-Iodo-2-propynyl butyl carbamate	 <p>IPBC C₈H₁₂INO₂</p>
15%	Methyl (1H-benzimidazol-2-yl) carbamate	 <p>BCM C₉H₉N₃O₂</p>



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ANTIMICROBIAL ACTIVITY

FUNGI	MIC* (ppm)
OBaccremonium implicatum	2.28
Alternaria alternata	0.72
Aspergillus flavus	0.56
Aspergillus niger ATCC # 1015	0.48
Aspergillus niger ATCC # 6275	0.64
Aspergillus niger ATCC # 9642	0.50
Aspergillus versicolor	0.30
Aureobasidium pullulans ATCC # 7305	0.13
Aureobasidium pullulans ATCC # 9642	0.13
Cladosporium cladosporoides	0.13
Curvularia lunata	0.87
Paecilomyces lilacinus	0.67
Paecilomyces variotti	0.66
Penicillium citrinum	0.16
Penicillium fellutanum	0.18
Penicillium notatum	0.13
Penicillium funiculosum	0.17
Penicillium sp.	0.13
Stachybotrys chartarum	0.71
Trichoderma virens	0.44
Trichoderma viride	0.82
Ulocaladium chartarum	1.11

*Minimum inhibitory concentration (MIC) is an indication of which microorganisms can be controlled by a preservative and the concentration at which growth of the test organism is inhibited under laboratory conditions. MIC values are expressed in parts per million (ppm). The lower the MIC value in ppm, the greater the product's effectiveness. MIC values should only be used for relative comparisons. Practical use concentrations are generally much higher and should be established through field tests and actual use.

