

POLYPHASE® 963

Dry-Film Preservative

Paints & Coatings/US

EPA Registration No.: 5383-151

Polyphase® 963 is a broad-spectrum fungicide and algaecide dispersion designed for use in solvent-based products.

Application & Use

Polyphase® 963 offers excellent dry-film fungal and algal protection in solvent-based paints, caulks, sealants, masonry coatings, pigmented wood protective stains, and other industrial applications.

Product Highlights

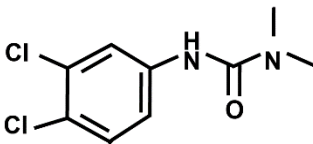
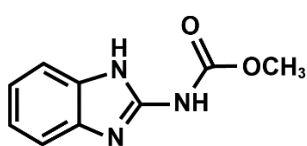
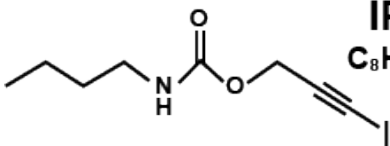
- Broad-spectrum protection
- Excellent cost-in-use profile
- Low VOC and APEO-free
- Color stable in pigmented systems

Physical Properties

The following are typical properties of Polyphase® 963; they are not to be considered product specifications.

Appearance:	Pale opaque dispersion
Specific Gravity, 25°C:	1.08
Viscosity, 25°C	1150
Flash Point (ASTM D3278-96)	79.5°C (175.1°F)

Active Substance

15.0%	3-(3,4-dichlorophenyl)-1,1-dimethylurea	Diuron	 <p>Diuron C₉H₁₀Cl₂N₂O</p>
9.0%	Methyl 2-benzimidazolecarbamate	BCM	 <p>BCM C₉H₉N₃O₂</p>
3.0%	3-Iodo-2-propynyl butyl carbamate	IPBC	 <p>IPBC C₈H₁₂INO₂</p>

Function/Activity

The following suggested use levels are based on laboratory tests and are typical for the applications indicated. The actual level required for your system is formulation specific. The selection of the individual components of the formulation, 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 are reported as percentage of the end-use product.

Paint and Coatings

Polyphase® 963 has been shown to be an excellent control agent against fungal and algal organisms for solvent-based paints and coatings. In hot, humid areas where mold and mildew are a particularly severe problem, higher application levels are suggested. Polyphase® 963 should be added at the end of the manufacturing cycle (not during the grind).

Wood Protective Stains (Solvent-Based)

Polyphase® 963 offers broad-spectrum protection against the discoloration of the protective film due to fungal and algal organisms. Polyphase® 963 does not change the appearance of wood or have any influence on its coatability. Polyphase® 963 is recommended only for pigmented wood stains. For clear and semi-transparent stains, performance tests should be conducted to ensure that Polyphase® 963 does not affect the transparency of the final coating.

Caulks and Sealants

Polyphase® 963 can be used to prevent the growth of fungal and algal organisms in both wet and cured adhesives, caulks, and sealants. Polyphase® 963 should be added towards the end of the production cycle with good agitation.

Function	% Wt/Wt
Paint	0.70 - 2.00%
Wood Protective Stains	0.50 - 2.00%
Masonry Coatings	0.20 - 1.00%
Roof Coatings	0.70 - 3.00%
Caulks & Sealants	0.50 - 1.50%
Joint Cements	0.50 - 1.20%

Formulating Considerations

Field testing of final products under actual use conditions is strongly recommended. All suggested use applications should be evaluated for final product efficacy, color uniformity, and for pH, temperature, and storage stability. Metal containers for formulated products should always be lined. Do not store formulated products for prolonged periods in iron or steel containers. Due to various possibilities of application and different methods of processing, it is advised to check compatibility in the development of new products. Contact your Arxada representative for assistance.

Packaging

Polyphase® 963 is packaged in:

Package Type	Net Weight
Large Drum	441 lbs / 200 kg
Tote	2205 lbs / 1000 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 label.



For more information visit:
www.arxada.com

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