

POLYPHASE® 663

Dry-Film Preservative

Paints & Coatings/US

EPA Registration No.: 5383-109

Polyphase® 663 is a broad-spectrum, zero VOC, water-based dispersion that is highly effective against a wide variety of fungal and algal organisms. Polyphase® 663 uses a synergistic combination of actives that outperforms many single active based formulations.

Application & Use

Polyphase® 663 offers excellent dry-film fungal and algal protection in paints, masonry coatings, stucco, and wood protective stains. Polyphase® 663 also provides excellent protection against fungal and algal growth on caulks, sealants, and other industrial applications. This product is particularly useful in water-based products in which Volatile Organic Compounds (VOCs) are a major concern and more than fungal protection is desired. It is particularly effective for application over cementitious substrates.

Product Highlights

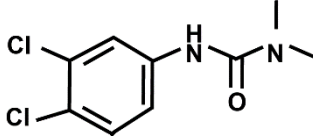
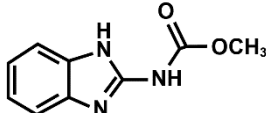
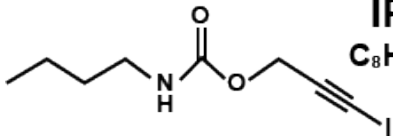
- Broad-spectrum protection
- Highly effective against a variety of fungal & algal organisms
- Zero VOC & APEO-free
- Does not chalk on exposure
- Color stable in white paint

Physical Properties

The following are typical properties of Polyphase® 663; they are not to be considered product specifications.

Appearance:	White flowable dispersion
Specific Gravity, 25°C:	1.15
pH (as is)	7.5
Viscosity, 25°C	300

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® 663 has been shown to be an excellent control agent against fungal and algal organisms in water-based paints and coatings. In hot, humid areas where mold and mildew are a particularly severe problem, higher application levels are suggested. Polyphase® 663 should be added with good agitation at the end of the Polyphase® 663 does not change the appearance of wood or manufacturing cycle.

Wood Protective Stains (Water-Based)

Polyphase® 663 offers broad-spectrum protection against the discoloration of the protective film due to fungal and algal organisms. have any influence on its coatability. Polyphase® 663 is recommended only for pigmented wood stains. For clear and semi-transparent stains, performance tests should be conducted to ensure that Polyphase® 663 does not affect the transparency of the final coating.

Caulks and Sealants

Polyphase® 663 can be used to prevent the growth of fungal and algal organisms in both wet and cured adhesives, caulks, and sealants. Polyphase® 663 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 - 0.60%
Roof Coatings	0.70 - 3.00%
Caulks & Sealants	0.50 - 1.50%
Stucco	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 prior to commercialization. Metal containers for formulated products should always be lined. Do not store formulated products for prolonged periods in iron or steel containers. It is advised to check compatibility in the development of new products. Contact your Arxada representative for assistance. Shelf-life is 12 months from date of manufacture.

Packaging

Polyphase® 663 is packaged in:

Package Type	Net Weight
Pail	44 lbs / 19.9kg
Small Drum	110 lbs / 49.9 kg
Large Drum	441 lbs / 200 kg
Tote	2500 lbs / 1133 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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