



# ASIICIDE DFP 50

## Product Information

### Dry Film Preservative for Waterborne Paints

**Background** A trend of switching from solvent-based paints to water-based has been observed over the past decades. Usage of less volatile organic compounds, aiming to perform better on health and environmental aspects came out as main reason for this change. Though this switch made paints vulnerable to spoilage. To combat such problem, antimicrobial additives are added in the waterborne paint formulations. Antimicrobials kill or slow the spread of microorganisms which include bacteria, viruses, algae, fungi etc.

**DRY FILM Preservative** Temperature, humidity, sunlight accelerate the growth of fungi and algae leading to visible material destruction on painted wall surface. To combat such problem, DRY FILM preservatives are added in paint formulation which protect water based exterior and interior surfaces from deterioration. This in turn offers longer life to painted surface.

**Product Description** HINDCIDE DFP 50 is a 'DRY FILM' preservative developed for the protection of damp surfaces and products from fungal as well as from algal growth. The product is chemically described as combination of 3-(3,4-dichlorophenyl)-1,1-dimethylurea; Methyl benzimidazol-2-yl Carbamate; 2-n-octyl-4-isothiazolin-3 one; nanocomposites and proprietary additives. The product is off white thick homogeneous suspension in nature.

**Features** Highly stable product with long shelf life.  
Compatible with all raw materials used in water-based paint formulation.  
Suitable for fungal and algal resistance of water based interior and exterior coatings.

<b>Typical Properties</b>	Appearance	:	Off white suspension
	Solid content (110°C/2hrs)	:	Min 45.0%
	Specific gravity at 25°C	:	Min 1.30
	Miscibility	:	Dispersible in water

**Guidelines for Use** HINDCIDE DFP 50 should be added under good stirring at the

dispersion stage. Good homogeneous distribution must be observed.  
Recommended dosage: 0.5 – 2.0%  
based on the total weight of the finished product depending on the environmental condition to which it will be exposed.

**Activity**

HINDCIDE DFP 50 is very effective against broad spectrum of fungus and alga. The product show excellent antialgal activity against alga like Scenedesmus spp., Chlorella spp. as per ASTM D 5589 standard. It also shows antifungal activity against Aspergillus niger, Aurobasidium pullulans and effectively destroys pathogens like Penicillium funicolosum as per ASTM D 5590 standard.

**Handling**

Avoid contact with skin and eyes. Use goggles and face shield. Material is a potential skin sensitizer. Wear nitrile or butyl rubber gloves. Gloves should be removed and replaced immediately if there is any indication of degradation.

**Storage**

Store in a dry, cold place. Product is effective for at least one year if sealed properly at ambient temperature in supplied packing.

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