

# ASIICIDE DFP 20



## 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 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 20 is a 'DRY FILM' preservative developed for the protection of damp surfaces and products from fungal growth. The product is chemically described as combination of 5-chloro-2-methyl-4-isothiazoline-3-one; 2-methyl-4-isothiazoline-3-one; 2-n-octyl-4-isothiazolin-3 one; zinc-based nanocomposites and proprietary additives. The product is colourless hazy 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 resistance of water based interior and exterior coatings.

#### Typical Properties

Appearance	:	Colourless hazy liquid
pH (1% w/v aq. solution)	:	4.0 – 8.0
Specific gravity at 25°C	:	1.045 – 1.050
Miscibility	:	Dispersible in water

#### Guidelines for Use

HINDCIDE DFP 20 should be added under good stirring at the dispersion stage.

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.

<b>Activity</b>	HINDCIDE DFP 20 is very effective against broad spectrum of fungus. The microorganisms are unlikely to show resistance after preservation. The product was tested against microorganisms like mixed spore suspension of <i>Aspergillus niger</i> (fungus), <i>Penicillium funiculosum</i> (fungus), <i>Aurobasidium pullulans</i> (yeast-like fungus) and showed excellent resistance.
<b>Handling</b>	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.
<b>Storage</b>	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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GST NO : 27AAAFR3518C1ZM