

ASIICIDE IC 10

Product Information



In Can 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.

IN CAN Preservative

Waterborne paints require biocides as a form of IN CAN preservatives for conservation to stop product spoilage inside the container prior to use.

Product Description

HINDCIDE IC 10 is a 'Formaldehyde free IN CAN' preservative developed for the protection of waterborne systems against microbial spoilage in the wet state. The product is chemically described as combination of 5-chloro-2-methyl-4-isothiazoline-3-one; 2-methyl-4-isothiazoline-3-one; silver nanocomposites and proprietary additives.

Features

Highly stable product with long shelf life.
Compatible with all raw materials used in water-based paint formulation.
Applicable for in can preservation of all kinds of water-based paint formulations like interior/exterior emulsion, acrylic putty, distemper, primer etc.

Typical Properties

Appearance	:	Colourless liquid
pH	:	2.0 – 5.0
Specific gravity at 25 ^o C	:	1.020 – 1.025
Miscibility	:	Miscible in water

Guidelines for Use

HINDCIDE IC 10 should be added under good stirring at the dispersion stage. Good homogeneous distribution must be observed. Recommended dosage: 0.15 – 0.3% based on the total weight of the finished product depending on the system to be protected.

Activity	HINDCIDE IC 10 is effective against broad range of bacteria, fungus and yeast. The microorganisms are unlikely to show resistance after preservation. The product was tested against microorganisms like Escherichia coli ATCC 10536, Pseudomonas aeruginosa ATCC 10145, Proteus vulgaris ATCC 13315, Klebsiella aerogenes ATCC 113048, Pseudomonas stutzeri ATCC 17588, Pseudomonas putida ATCC 12633, Alkaligenes faecalis ATCC 8750, Candida albicans ATCC 10231, Aspergillus niger ATCC 6275, Penicillium funiculosum ATCC 11797, Chaetobiumglobosum ATCC 6205, Aurobasidium pullulans ATCC 15233and showed excellent resistance as per ASTM D 2574 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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