

ROCIMA™ 382 Biocide

Dry Film Preservative Against Fungi and Algae

Description

ROCIMA 382 Biocide is a film preservative for use in aqueous plaster, paint and varnish systems. It is used to prevent the growth of fungi, algae and lichen on coatings.

ROCIMA 382 is an ideal combination of fungicidal and algicidal active substances, where a very broad spectrum of activity against micro-organisms occurring on coatings is required.

ROCIMA 382 is in the form of a fluid, pumpable dispersion. The choice of active substances and their special formulation makes it possible to manufacture products which do not contribute to VOC or AOX.

Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: optimised combination of zinc pyrithione and s-triazine derivative.

Appearance	beige-greyish, flowable dispersion	
Density 20°C	1.13 ± 0.05 g/ml	ISO 2811-3
Viscosity η 20°C	80 ± 20 KU	ASTM D-562
Particle size	max. 30 μ m	ISO 1524
Flash point	>100°C o.c. Cleveland	ISO 2592

Typical Properties

Miscibility/Solubility

Miscible with water, partially miscible with organic solvents. Practically insoluble in water and organic solvents.

Compatibility

May react with metal containing additives.

Stability

The activity will not be affected by short periods of temperatures up to 100°C during manufacturing, or by pH in the range 4-10.

Application and Activity

ROCIMA 382 is the appropriate preservative for protecting all kinds of coated surfaces from the growth of algae, lichen and moulds. The addition of ROCIMA 382 to paints prevents the coating film itself from becoming a culture medium for micro-organisms. Moreover, through the optimised diffusion of the active substances to the surface of the coating, the growth of algae, lichen and moulds can be prevented for a long time, even under adverse weather conditions.

ROCIMA 382 can be used to formulate VOC-free and AOX-free coatings, without compromising the broad spectrum of protection against micro-organisms.

ROCIMA 382 is effective as a dry film biocide. We, therefore, recommend the use of an additional in-can preservative (e.g., ROCIMA 564, ROCIMA 523, ROCIMA 607) for the preservation of the aqueous phase.

ROCIMA 382 must be mixed homogeneously into the product being protected. It can be added at any phase of the manufacturing process as long as a good distribution in the end product is achieved.

ROCIMA 382 is easy to incorporate in most paint systems and shows a good compatibility. As with all newly formulated products or in case of changes in the composition, we recommend that a compatibility test is performed. The use of metal containing additives is not recommended because of the possibility of problems occurring with the drying of oxidative systems or giving rise to discoloration.

Should you encounter microbial problems or problems concerning special applications, our Biological Laboratory and our Technical Service Laboratories will be pleased to assist you.

Dosage

The optimum dosage of ROCIMA 382 depends largely upon the amount of dirt to be expected on the treated surfaces and the potential of the local environment to contaminate the substrate. It will also be dependent on the susceptibility of the coating to fungal and algal growth.

The bioactive substances in ROCIMA 382 Biocide are irreversibly consumed in the prevention of growth of micro-organisms, and hence a reliable estimate of the expected level of contamination is very important when deciding the optimum dosage of ROCIMA 382 to be used.

For this reason the concentration ranges listed below should be used as general guidelines only:

Paints	1.0 - 2.0%
Plaster	0.3 - 0.6%

In cases of exposure to extreme weather, continuous condensation or if the coating is subjected to rapid contamination with surface dirt, the dosage of ROCIMA 382 may have to be increased above the usual levels.

It is recommended that proposed dosages should be checked in laboratory tests and if possible with practical external experiments as well.

Handling

Please refer to the safety data sheet of this product for precise handling instructions.

The processing and use of industrial chemicals require adequate technical and professional knowledge.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact despite precautionary measures, wash immediately and thoroughly with plenty of warm water and obtain medical attention.

The legal requirements prevailing in your country, especially on working hygiene and in the avoidance of accidents, must be observed.

Storage

ROCIMA 382 should be stored in tightly closed original containers at room temperature. Protect from light and frost. Any supplies which do freeze must be mixed homogeneously after thawing before they can be used, no loss in effectiveness will be experienced.

Use biocides safely. Always read the label and product information before use.

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