ROCIMA™ 371N Biocide

Dry Film Preservative Against Fungi and Algae in Coating and Plaster Systems

General Description

ROCIMA 371N Biocide is a preparation of fungicides and algicides for aqueous based coatings and plasters, where permanent dry film protection is required under severe environmental and climatic conditions.

ROCIMA 371N is also recommended for use in transparent wood finishes to be applied on rough sawn timber and planed wood surfaces.

ROCIMA 371N is a development of ROCIMA 371 with a reinforced algicidal effect for use in VOC-free paint systems.

ROCIMA 371N is a fluid, pumpable dispersion which is easy to handle, meter and incorporate into aqueous based systems.

Composition and Technical Data

Composition: Combination of iodopropynylbutylcarbamate and s-triazine derivative

Appearance	greyish-white dispersion	
Density 20°C	1.03 ± 0.05 g/ml	ISO 2811-3
Viscosity η 20°C	80 ± 25 KU	ASTM D-562
Particle size	< 30 µm	ISO 1524

(These values do not constitute specifications)

Typical Properties

Miscibility / Solubility
Miscible with water, immiscible with non-polar solvents. Practically insoluble in water and organic solvents.

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

Worldwide, increasing building construction is creating enormous surfaces covered mainly with plasters and paints of various kinds. These surfaces provide, depending on the local environment and type of finish, an ecological niche, which can be colonized by a variety of moulds and algae. The progressive specialisation in the field of paint systems for weather exposed surfaces as well as applied biocides are leading to a gradual adaption of the micro-organisms.

ROCIMA 371N is an updated product specifically designed to control the growth of a great variety of micro-organisms.

ROCIMA 371N contains no volatile organic solvents and is also free of halogenated aromatic compounds, whereby for various countries a broader application field can be achieved, also especially in VOC-free paint systems.

If, due to faulty construction, the surfaces to be coated are permanently damp, remedial work must be done to correct this, before a successful application of ROCIMA 371N can be achieved using an economical and ecologically reasonable dose.

The broad spectrum of activity of ROCIMA 371N includes also the group of blue stain and rot fungi. This allows the use of ROCIMA™ 371N in aqueous coatings for wood, in order to meet the protection activity in practice.

ROCIMA 371N is only effective as a dry film fungicide and algicide, therefore we recommend the use of an additional in-can preservative (e.g. ROCIMA 564, ROCIMA 523 or ROCIMA 607).

ROCIMA 371N must be mixed homogeneously into the product being protected and it is recommended that ROCIMA 371N is added at the beginning of manufacturing process.

In certain formulations ROCIMA 371N can cause a slight yellow discoloration, and care must be taken to ensure that initial formulations are tested under the same conditions that the finished product will meet in actual use. Due to the large variety of possible ingredient combinations it is not possible to correlate the risk of discoloration to individual ingredients.

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

Dosage

The optimum dosage of ROCIMA 371N Biocide depends largely upon the amount of dirt to be expected on untreated surfaces and the potential of the local environment to contaminate the treated surface. It will also be dependent upon the susceptibility of the coating to fungal and algal growth.

The bioactive substances in ROCIMA 371N 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 371N.

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

External paints	0.5 - 3.0%
Plasters	0.2 - 1.0%
Wood coatings	1.0 - 5.0%

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 371N may have to be increased above the usual levels.

It is essential that the dosages of ROCIMA 371N employed are fully tested in formulations that are designed to take into account the weathering intensity of the use environment.

The 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

It is recommended to store ROCIMA 371N at room temperature in the original drums. Protect from frost. Any supplies which do freeze must be homogeneously mixed after thawing before they can be used, no loss of effectiveness will be experienced.

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

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control.

We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Suggestions for use of our products, or the inclusion of descriptive material from patents and the citation of specific patents in this publication, should not be understood as recommending the use of our products in violation of any patents or as permission or license to use any patent of the Rohm and Haas Company.

For further details, please contact your local Account Manager or local Business Representative.