

ROCIMA™ 363N Biocide

Algicidal and Fungicidal Preparation for Coatings and Plasters

Description

ROCIMA 363N Biocide is a dry film preservative for use in plasters, paints and wood coatings where permanent dry film protection is required on external surfaces subjected to severe weathering and on internal surfaces where high humidity is encountered.

ROCIMA 363N is a fluid, pumpable dispersion of active ingredients which is easy to handle, meter and incorporate into aqueous based systems and which provides a very broad spectrum of activity against fungi and algae.

ROCIMA 363N has been formulated to satisfy various ecological demands and is an AOX-free and low-VOC formulation.

ROCIMA 363N is primarily designed for use in water based systems. However, it can be incorporated into solvent based systems where it is compatible with the final product and packaging.

ROCIMA 363N is a biocidal product intended for use in accordance with Product Type 7 (Film Protection) of the Biocidal Products Directive.

Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: combination of carbendazim, octylisothiazolone and s-triazin derivative

Appearance	greyish dispersion	
Density 20°C	1.05 ± 0.05 g/ml	ISO 2811-1
Viscosity η 20°C	max. 100 KU	ASTM D-562
Particle size	max. 30 μ m	ISO 1524

Typical Properties

Miscibility/Solubility

Miscible with water, immiscible with water insoluble 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

ROCIMA 363N is particularly suited to provide, at an optimised cost performance, algicidal and fungicidal protection to the coated exterior surfaces of buildings, which are subjected to severe weathering conditions. Such surfaces are often covered with dirt consisting of airborne particles of substances like soot from industry and internal combustion engines, soil and fertilizer from agriculture, pollen and other airborne debris. This dirt serves as a substrate for micro-organisms which have relatively modest demands.

ROCIMA 363N has two modes of action to protect plasters and paints. Firstly, it prevents the plaster or paint from serving as the substrate for contaminating micro-organisms. Secondly, when the surface becomes wet through rain or condensation, the controlled diffusion of the active ingredients into the wet phase occurs preventing the growth of micro-organisms on the dirty surface layer.

ROCIMA 363N has been developed from ROCIMA 363, from which it differs principally in respect of the different algicidal component and the formulation.

ROCIMA 363N offers the user an AOX-free and low-VOC product with a modern formulation and a broad spectrum of activity against moulds and algae.

If structural defects lead to permanent dampness, the defects must be corrected before a successful application of an anti-microbial coating can take place.

ROCIMA 363N must be blended homogeneously with the product to be protected.

It is recommended that ROCIMA 363N is added at the beginning of the manufacturing process.

Should you encounter microbial problems or problems concerning special applications, please contact our Biological Laboratory or our Technical Service Laboratory respectively.

Dosage

The optimum dosage of ROCIMA 363N Biocide depends largely upon the amount of dirt to be expected on the surfaces to be treated and the potential of the local environment to contaminate them. It will also be dependent on the susceptibility of the coating to fungal and algal growth.

The bioactive substances in ROCIMA 363N 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 363N to be used.

For this reason the concentration ranges listed below should be used for general guidance only:

Plasters and fillers	0.2 – 1.0%
Coatings	0.5 – 3.0%

In cases of exposure to extreme weather conditions, or if the coating is subjected to continuous condensation or to rapid contamination with surface dirt, the dosage of ROCIMA 363N may have to be increased above the usual levels.

It is recommended that proposed dosages are checked in laboratory tests and, if possible, with practical external experiments as well. This applies to both the compatibility in the finished product and to the expected level of protection.

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

Store at room temperature. Protect against frost. Prolonged storage at $T > 40^{\circ}\text{C}$ and/or repeated variations in storage temperature may lead to crystal formation. However, experiments have shown that the crystals dissolve during the production process. If ROCIMA 363N has been added at the beginning of the production. If added at the end of the production, the crystals are no longer detectable after a storage time of 14 days at $20 \pm 5^{\circ}\text{C}$.

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

ROCIMA is a trademark of Rohm and Haas Company or of its subsidiaries or affiliates. The Company's policy is to register its trademarks, where products designated thereby are marketed by the Company, its subsidiaries or affiliates.

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 uses 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 patent or as permission or license to use any patents of the Rohm and Haas Company.



©Rohm and Haas, 2007. All rights reserved.

BIO.ROCIMA 363N.PDS.E.07/2006