

ROCIMA™ 342 Biocide

Liquid Fungicide and Algicide for Coatings

Description

ROCIMA 342 Biocide is a liquid fungicide and algicide for the protection of paint films and coatings. It is a high-performance preservative against the growth of surface moulds which also displays excellent activity against algae and bacteria.

ROCIMA 342 has very low water solubility. It has a high resistance to leaching even on weathered surfaces and provides, therefore, a long-term protection.

ROCIMA 342 has been developed to fulfil many eco-toxicological demands. It is a VOC-free formulation which is not persistent in the environment but can be dissipated by chemical or biological means.

ROCIMA 342 is a biocidal product intended for use in accordance with Product Type 7 (Film Preservation) of the Biocidal Products Directive.

Composition and Technical Data

Composition: Liquid preparation of dichloroethylisothiazolone

Typical Properties

These properties are typical but do not constitute specifications.

Appearance	greenish-yellow, clear liquid	
Color (Gardner)	max. 6	ISO 4630
Density 20°C	1.013 ± 0.01 g/ml	ISO 2811-3
Refractive Index $n_{\frac{20}{D}}$	1.450 ± 0.005	ASTM D 1218-02
Viscosity η 20°C	15 ± 10 mPa.s	ISO 2555
Flash point	>150°C o.c. Cleveland	ISO 2592

Typical Properties

Miscibility/Solubility

Clearly miscible at any proportion with organic solvents such as alcohols, ketones, aromatics.

Miscible with water with the formation of a milky emulsion.

Application and Activity

ROCIMA 342 is an effective microbicide for use in paints and coatings which are applied on wood or on mineral surfaces. ROCIMA 342 is especially suited for aqueous systems but is also compatible in many solvent-based coating systems.

ROCIMA 342 shows a very broad and balanced spectrum of activity against mould and algae in the field of application. ROCIMA 342 is therefore suitable to be used as the sole protective agent. It can also be combined with other fungicides or algicides to improve their spectrum of activity.

If, due to faulty construction, the surfaces to be coated are permanently damp, remedial work must be performed to correct this (e.g. with ROCIMA 103) before a successful application of microbicides can be achieved.

ROCIMA 342 primarily develops its effect after the coating or plaster system has been applied. It has, however an in-can activity. For optimal protection of the aqueous phase in containers from infestation of bacteria it is advisable to include an in-can preservative (e.g. ROCIMA 564, ROCIMA 551, ROCIMA 518).

ROCIMA 342 is liquid and consequently easy to incorporate into the end product. A uniform and homogeneous distribution can be obtained by simple but thorough stirring.

ROCIMA 342 Biocide can be added at any phase of production provided thorough mixing is guaranteed. Should the manufacturing process involve heating of the product, it is advisable to add ROCIMA 342 after cooling down at the end of the process.

The great variety of systems and manufacturing conditions makes it generally advisable to check compatibility before starting to use any new ingredient.

Should you encounter microbial problems or problems concerning applications, please contact your Rohm and Haas Representative.

Dosage

The optimum dosage of microbicides depends largely upon the susceptibility of the coating to fungal and algal growth, the exposure to weathering, the thickness of the coating, the amount of dirt to be expected and the potential of the local environment to contaminate the surface.

For that reason, the concentration ranges listed below should be taken as general guidelines only:

Coatings	0.5 - 1.5%
Plasters, fillers	0.2 - 0.5%
Adhesives	0.1 - 0.3%

It is recommended that the proposed dosages of ROCIMA 342 Biocide 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 Material 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 342 should be stored in tightly sealed original containers, preferably at room temperature.

If stored below -6°C solidification can take place which can be reversed by simply warming up to room temperature.

After a homogeneous mixing ROCIMA 342 can be used without any loss in effectiveness. Protect from light and heat.

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 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.



©Rohm and Haas, 2007 All rights reserved.

April 2007
BIO.ROCIMA 342 Biocide.PDS.E.04/2007