



## ROCIMA™ 346 Biocide

### Liquid Fungicide and Algicide for Solvent-Based Coatings

#### General Description

ROCIMA™ 346 biocide is a liquid mildewcide for the protection of solvent based paint films and coatings. It is a high performance preservative against the growth of surface moulds and also displays excellent activity against algae and bacteria.

ROCIMA™ 346 has very low water solubility. It has a high resistance to leaching even on weathered surfaces and provides therefore a long-term protection.

#### Performance Benefits

Long-lasting preservation	When used at recommended mildewicidal levels
Broad spectrum activity	Controls a wide range of fungi and algae
Very low water solubility	Provides long-term activity by resisting leaching
Non persistent in the environment	Readily dissipated by biological and chemical means
Liquid	Easily incorporated into paint formulation
Effective in coating and building products and economical to use	

#### Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: Liquid preparation of 4,5-dichloro-2-n-octyl- 4-isothiazolin-3-one.

Test	Min.	Max.	Method
Appearance	Yellowish, clear liquid		Visual
Colour (Gardner)	Max. 3		ISO 4630
Density d 20/4	1.0816	1.1016 g/cm <sup>3</sup>	ISO 2811-1
Refractive index n 20/D	1.5136	1.5236	ASTM D 1218-02
Viscosity $\eta$ 20°C	35	55 mPa.s	ISO 2555
pH value (10% in water)	2.5	5.5	IN 7463 ACM

(These values do not constitute specifications)

#### Typical Properties

##### Miscibility/Solubility

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

#### Application and Activity

ROCIMA™ 346 is an effective biocide for the use in solvent-based paints and coatings which are applied on wood or on mineral surfaces.

ROCIMA™ 346 shows a very broad and balanced spectrum of activity against mould and algae in the field of application. ROCIMA™ 346 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. The active ingredient of ROCIMA™ 346 complies with several regulations of the Food and Drug Administration (FDA) of the USA.

ROCIMA™ 346 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™ 346 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™ 346 after cooling down at the end of the process. The great variety of systems and manufacturing conditions make 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 Dow Chemical Company Representative.

### **Dosage**

Recommended use levels of ROCIMA™ 346 biocide range from 0.12% to 0.57%, as supplied, on total weight of paint formulation.

Testing ROCIMA™ 346 for dry film for wet stage preservation customer formulations is highly recommended.

The usage level required to obtain the desired degree of protection with ROCIMA™ 346 depends on several factors. These include the climate conditions where the paint will be applied, the type of paint produced, the condition of the surface being painted, and the number of coats of paint applied. For maximum protection we recommend using 1150 ppm active ingredient (0.57% product as supplied).

### **Formulating Techniques**

ROCIMA™ 346 is a liquid that is easily incorporated into paint formulations. In principle, it can be added to the paint at any point in the paint preparation process. In practice, we have found ROCIMA™ 346 is preferably added as a letdown ingredient, along with good agitation, before binder addition.

### **Storage**

ROCIMA™ 346 should be stored in tightly sealed original containers, preferably at room temperature, and protected from light and heat.

If stored below 0°C, solidification can take place which can be reversed by simple warming up to room temperature. After a homogeneous mixing ROCIMA™ 346 can be used without any loss in effectiveness.

### **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.

### **Biocidal Products Directive Compliance**

ROCIMA 350 is a biocidal product intended for use in accordance with Product Type 7 (Film Preservation) of the Biocidal Products Directive 98/8/EC (BPD).

## Caution

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

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