

TECHNICAL SHEETS

ATC® ACTYBIO A1RS

Preservante

ATC® ACTYBIO A1RS is a high-performance preservative that has a synergistic composition, acting with excellence in the preservation of materials in the wet state, offering a wide spectrum of activity against bacteria, fungi and yeasts.

Composition

ATC® ACTYBIO A1RS is composed of zolinone isothia and formaldehyde donor.

Application

ATC® ACTYBIO A1RS has a wide spectrum of action and can be used in the preservation of decorative paints in emulsion based on styrene-acrylic aqueous resins, styrene-butadiene, vinyl, alkyd, running mass, adhesives and cutting fluids. It has great efficiency against the microorganisms responsible for this degradation and for its dispersion in the product, acts homogeneously in the packaging, always providing an integral protection, regardless of sedimentations or phases that may be formed.

Its active principles provide fast-kill action (from aldehyde) and residual action (from isothiazolinone), ideal characteristics for perfect protection against anaerobic and aerobic bacteria, fungi and yeasts in the wet state (in-can preservation).

Required Dosages

ATC® ACTYBIO A1RS is an effective preservative against the growth of microbial agents in aqueous systems. Below we consider some of the possible applications and the suggested concentrations for testing.

Product %	ATC® ACTYBIO A1RS (Based on total formulation weight)
Oil in water emulsions: 0.10% Solutions for use in the textile and leather industry.	- 0.50%
Polymer dispersions: 0.10% Polymer latex based on acrylate, styrene and PVA for various applications, such as floor wax, synthetic latex/rubber.	- 0.30%
Emulsion for paints and coatings: For preservation "In-Can".	0.10% - 0.30%
Adhesives: 0.10% Animal glues, plant-based adhesives, PVA, casein and carboxymethylcellulose (CMC).	- 0.30%
Pigment dispersions: 0.10%	- 0.30%

ATC's Technical and Microbiological Department can help determine the exact concentration required for a specific application.

Properties

Appearance a 25°C	Colourless light yellow liquid.
pH	2,0 - 5,0
Stability	Stable under normal storage conditions. Stable in the pH range between 3 - 9 and up to 60°C.
Compatibility	The compatibility of ATC® ACTYBIO A1RS should always be tested before use.

Microbiological activity

ATC® ACTYBIO A1RS, according to current standards, has shown excellent efficacy against the main microorganisms that degrade aqueous systems. Its broad spectrum of action includes:

Gram Positive Bacteria	Fungi	Yeast	Gram Negative Bacteria
Bacillus cereus Bacillus subtilis Brevibacterium amoniagenes Pregnancy lutea Estafilococcus aereus Estafilococcus epidermidis	Aspergillus niger Aspergillus oryzae Aspergillus sp Penicillium sp Fusarium sp	Candida sp Rhodotorulla sp	Achrombacter parvulus Alcaligenes faecalis Burkholderia cepacia Enterobacter aerogenes Escherichia coli Flavobacterium suaveolens Proteus vulgaris Pseudomonas aeruginosa Pseudomonas fluorescens Pseudomonas oleoverans Salmonelatyphosa Shigella sonnei

Compatibility

ATC® ACTYBIO A1RS is compatible with most raw materials and aqueous products susceptible to microbiological contamination.

It can be added at any time during production. However, it is advisable to add ATC® ACTYBIO A1RS in the early stages of manufacturing for protection throughout the production process.

The compatibility of ATC® ACTYBIO A1RS with the application should always be evaluated prior to use.

Care must be taken to ensure that the temperature, pH and redox potential at the point of addition are suitable for the stability of the product.

Our technical department is available for further guidance.

Packaging, handling and storage

ATC ACTYBIO A1RS is marketed in candies of 50 kg, drums of 200 kg and IBC® of 1000 kg.

Store in the original packaging, protected from ultraviolet radiation and at temperatures between 10°C and 40°C. For more information on the safe handling of the product and materials suitable for handling, consult the MSDS.

Incorrect handling of ATC® ACTYBIO A1RS can be detrimental to those involved. Carefully follow all the safety recommendations indicated in the emergency form, which accompanies the invoice and F IS PQ.

Information

For more information about this product or other ATC do Brasil products, please contact our sales department at +55 51 3561 0206, email: comercial@atcdobrasil.com.br or visit our website at www.atc.fr

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

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