

## Materials Protection

Densil® FZ antimicrobial combines two active agents with complementary mechanisms of action in order to provide broad spectrum anti-fungal and anti-algal protection.

### Summary

Densil® FZ Antimicrobial is a broad spectrum dual-active for the dry-film protection of aqueous based surface coatings. Like our Zinc Omadine ZOE® product, it contains Zinc Omadine® antimicrobial and it uses the same transchelation suppression technology. The basic concept of Densil® FZ Antimicrobial is to compliment the durable, long-term slow leaching, low water solubility properties of Zinc Omadine® antimicrobial with a secondary more water soluble fungicide.

Densil® FZ Antimicrobial is registered with the Environmental Protection Agency and has been granted EPA registration No. 6836-443.

### How to Use

Cost-effective use level recommendations can only be established through testing of a specific formulation as it is intended for use in a specific application. Formulations differ in their composition and as a result, can impact their susceptibility to microbial attack. Conditions, use, and performance expectations differ from product to product. A high performance preserved product that is under consideration for use in humid environments is likely to need a high dose of biocide. Preserved product that is not intended for use in humid environments would likely need a lower dose of biocide. Therefore, while example use levels are provided below, the balance between biocide dosing and cost and performance requirements can only be determined by laboratory and field testing in the particular intended environment. Densil® FZ Antimicrobial should be added to the system as early in the process as possible.

Substrate	Suggested Concentration (%)
Coatings and Stains	
Interior	0.3% - 1.5%
Exterior	0.5% - 3.0%
Roof Coatings	0.7% - 3.0%
Stucco and EIFS Coatings	0.5% - 1.5%
Construction Materials (Wood Fillers, Putties, etc.)	0.3% - 2.0%
Joint Cements	0.5% - 1.5%
Adhesive Sealants (Non-Food)	0.3% - 2.0%
Wallboard and Ceiling Tile	1.0% - 2.5%
Paper Coatings	0.4% - 2.0%
Dispersed Pigments (Mineral Slurries, Colorants, etc.)	0.3% - 2.0%

Physical Properties	
Composition	An aqueous dispersion Zinc Pyrithione and Iodo-2-propynyl butylcarbamate
Active Agent	20.0% w/w
Physical Form	Light tan dispersion
Flash Point	Boils without flashing
Stability	Stable under normal conditions of storage. The active agents are non-volatile. Protect from frost.
Compatibility	Compatible and effective over pH range 4-10. Incompatible with some oxidizing and reducing agents e.g. persalts, sulphites.

## Technical Service

As part of our customer support program Lonza's Technical Service Laboratories can assist with compatibility and performance testing. Please contact your local Arxada Account Representative for information about these customized services, sample orders, container sizes and pricing.

## Health and Safety

Arxada has a high level of expertise in the fields of safety, health and environment and is fully committed to the Product Stewardship of biocidal products.

A Safety Data Sheet (SDS) for this product may be supplied upon request. Refer to the SDS for information on storage, container disposal and safe handling practices.

For information on spills, call +1 800 654 6911.

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### **Use Biocides Safely. Review and follow all product safety instructions.**

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