

Aquastat® X11 Antimicrobial Antifungal Additive

The new standard in bacteria and mold protection



More studies are being released everyday that show how *germs*: bacteria, viruses, mold and fungi, are able to stay alive and propagate on various surfaces. The innocent passerby then comes in contact with the contaminated surface and has now become a host for the bacteria or virus to grow and be transmitted to yet another person. As the process of transmission of illness is becoming more understood, significant effort is being applied to develop antimicrobial additives that kill and control bacteria growth in and on surfaces and materials. Some specific areas where antimicrobial protection is key are: household and specialty products, medical devices, paper-based building materials, countertops and kitchen components, children's toys, plastics and air filtration.

There are currently many products claiming to have the ability to protect surfaces from bacteria growth, however independent studies are beginning to show that many of these products have no or little efficacy when applied. Additionally, many products are limited in functionality in that they are designed to control bacteria growth alone, with no ability to control mold and fungi.

We start with the foundation of building trust with the consumer or industrial partner. We do this by verifying that all of our products meet a high standard performance and efficacy through independent studies PRIOR to a commercial launch. In regard to the Aquastat X11 material, we have transformed four years of concentrated research into a product with superior antimicrobial activity in an easy-to-apply form. Our patented antimicrobial additive is manufactured as a fine, inorganic, free-flowing powder that has been proven by independent studies to control a broad spectrum of bacteria, mold and fungi. We also have the ability to custom-design the Aquastat X11 material for formulation into specific devices or end uses.



K2 Concepts, Inc.
114 N^o Prince Street
Lancaster, Pennsylvania
USA 17603

Manufacturing facility
152 Park Industrial Boulevard
Ringgold, Georgia
USA 30736

www.k2conceptsinc.com
info@k2conceptsinc.com
+1 877 726 4564

© 2009 K2 Concepts, Inc.
All rights reserved.
Call for information on our
complete line of products.

Some example uses are:

- Air filtration systems for home, office, and confined areas
- Humidification/dehumidification systems
- Paper-based building materials
- Paint and Surface coatings
- Plastics and molded products
- Fabrics
- Medical devises
- Counter tops and kitchen items
- Children's toys
- Resin-based outdoor furniture

The engineered functionality behind the Aquastat® material enables it to release trace amounts of our proprietary mineral-based antimicrobial when moisture is present (either through contact with a human hand, water, or humidity in the air). By functioning in this fashion, the media acts as a “time released capsule” maintaining a constant level of the antimicrobial protection on all surfaces to prevent bacteria and mold growth over extended periods. Additionally, the inorganic nature of the Aquastat® X11 material allows safe handling, storage, and application into any current fabrication process.

Welcome to the new standard for bacteria and mold protection.

Benefits

- Controls a Broad Spectrum of bacteria, molds and viruses
- Inorganic-based and stable –disperses easily into liquid or can be admixed in its powder form.
- US EPA Registered Product
- Registered for use in drinking water filters.
- Time Release action allows continuous protection in high humidity or even water environments.

Properties

Matrix	Inorganic Metal/Metal Oxide Composite
Composition (by wt.)	
Active Ingredient	Proprietary mineral composite
Inert	Al ₂ O ₃ -98.6% (± 0.25%)
Physical Form	Free-flowing powder (white or light green)
Particle Size Distribution	
Micron	4-6
Packaging (net weight)	250 lb fiber drums (others available)
Bulk Density (gms/cc)	29 lbs/ft ³
pH	6.5 -7.5 (± 0.5)



K2 Concepts, Inc.
114 N^o Prince Street
Lancaster, Pennsylvania
USA 17603

Manufacturing facility
152 Park Industrial Boulevard
Ringgold, Georgia
USA 30736

www.k2conceptsinc.com
info@k2conceptsinc.com
+1 877 726 4564

© 2009 K2 Concepts, Inc.
All rights reserved.
Call for information on our
complete line of products.

affiliations

