

### PRODUCT DESCRIPTION

MIC-GUARD Coating Additive is a powder product that is incorporated into industrial linings, coatings, and molded products to inhibit the growth of mold, mildew, bacteria, and other microorganisms. MIC-GUARD enhanced products create surfaces that neutralize bacteria and inhibit the development of biofilm accumulation. MIC-GUARD utilizes a patented combustion synthesized material to fight microbial growth, even in the most harsh conditions. Mix it into industrial coatings and linings to fight microbiological influenced corrosion, mold and mildew accumulation, and biofouling.

### TYPICAL USES

Polyethylene linings, corrosion inhibiting coatings, antifouling applications

### ADVANTAGES

- Protects coated surfaces and molded products from microbiological growth
- Compatible with a wide variety of coatings and lining systems
- Combustion synthesis production yields a cermet material capable of neutralizing microorganisms in extreme environments
- Laboratory proven to kill bacteria and other microorganisms
- Rugged, hard particles are capable of increasing abrasion resistance of host coatings
- Adds antimicrobial properties to coatings without negatively impacting original coating properties

### SPECIFICATIONS

**Boiling Point:** Not applicable

**Freezing Point:** Not applicable

**Color/Finish:** Light grey speckled

**Cure Time:** May slightly increase cure time of coating

**Recoatibility:** Does not impact coating

**Compatibility:** Polyethylene linings, oil based coatings, epoxies and urethanes, water based coatings

**Application Temperature:** Per coating manufacturer specs

**Bulk Loose Density:** 500 kg/m<sup>3</sup> - 600 kg/m<sup>3</sup>

**Bulk Packed Density:** 1012 kg/m<sup>3</sup> - 1,100 kg/m<sup>3</sup>

**Color:** Light grey

**Melting Point:** 1975°C

**VOC:** 0.0 g/liter

**Solids by Weight:** 100%

**Recommended WFT:** Per coating manufacturer specs

**Shelf Life:** Indefinite shelf life

### SUBSTRATE PROTECTION CHARACTERISTICS

#### Fungi

Passes severe ASTM D5590 paint film fungal defacement testing, even when subjected to combined strains of mold and mildew spores.

*Aspergillus niger* - EFFECTIVE

*Penicillium funiculosum* - EFFECTIVE

*Aureobasidium pullulans* - EFFECTIVE

#### Coating Degrading/Fouling Bacteria

Passes ASTM E2180 standard test for evaluating antimicrobial agents in polymeric materials.

Demonstrated effective against a wide strain of bacteria in laboratory conditions.

Aerobic - EFFECTIVE

Anaerobic - EFFECTIVE

Gram Negative - EFFECTIVE

Gram Positive - EFFECTIVE

Spore Forming - EFFECTIVE

Non-Spore Forming - EFFECTIVE

### DIRECTIONS FOR USE

Incorporate MIC-GUARD into coatings, linings, resins, and molded products per project specifications. Ensure that MIC-GUARD is mixed well before blending into host coating or lining. Thoroughly blend product into coating and follow manufacturer guidelines for product application, cleanup, and required personal protective equipment.

### SAFETY INFORMATION

Avoid ingestion, contact with skin or eyes. When brushing, rolling or spraying any type of paint or coating, appropriate NIOSH approved respiratory protection is recommended. See Safety Data Sheet for complete safety data before use, available at [www.btgproducts.com](http://www.btgproducts.com). It is the applicator's responsibility to understand these safety precautions and the work environment, to protect themselves and/or others.

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### LIMITATION OF LIABILITY

All recommendations or suggestions relating to the use of the product, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The product and information is designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use. Conditions of use are beyond our control, Buffalo Technology Group, LLC (the Company), disclaims any liability incurred in connection with the use of our products and information contained herein. No person is authorized or empowered to make any statement or recommendation not contained herein, any such statement or recommendation so made shall not bind The Company. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents Buffalo Technology Group, LLC has no control over either the quality of condition of the substrate, or the many factors affecting the use and application of the product. Therefore, Buffalo Technology Group, LLC does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet. The information contained in this data sheet is subject to modification. This data sheet replaces and annuls all previous issues. The user has the responsibility to ensure that this sheet is current prior to product use.