



Con<sup>mic</sup>Shield® HD is an invisible durable protective additive for concrete and repair mortars. It protects the surface against bacteria and fungi, which cause deterioration. It also protects against the growth of odor-causing bacteria *in vitro* tests. It has been shown to form a durable, yet invisible, bonded coating to a number of surfaces and finishes, and is especially effective when added to concrete to prevent MIC corrosion. Con<sup>mic</sup>Shield® HD offers the following features:

Good durability – It imparts EXTENDED protection against, broad spectrum, biostatic activity to the surface of a wide variety of substrates: it is leach resistant and nonmigrating.

- Broad-spectrum protection – protects against gram positive and gram negative bacteria, fungi, algae and yeasts.
- Increased efficiency – through proper application, durable protected surfaces can be attained.

**Benefits.** Con<sup>mic</sup>Shield® HD offers users the following benefits:

- Product Performance with little degradation up to 375 ° F.
- Essentially Non-toxic, Water based
- Contains no Phenols, Tin, Heavy metals, Lead, Mercury or Formaldehyde.
- Prevents deterioration and discoloration caused by bacteria, fungi, algae and yeasts via wicking.
- Protects against the growth of bacteria and mildew.
- Resists odors
- Compatible with non-ionic, cationic and certain amphoteric surfactants.

### Physical Properties

Physical State: Pale yellow or light blue, slightly viscous liquid at 77°F /25 °C

pH: 5

Specific Gravity (@ 68°F/20°C): 1.0g/ml

Density: 8.48 lbs per gallon

**EPA Reg. No.** 75174-7-73453

### Storage and Shelf Life

When stored in original, unopened containers between temperatures of 40-80 ° F, it has a minimum shelf life of 12 months from date of shipment from ConShield Technologies. Since this material is moisture-sensitive, keep containers tightly sealed.

### STORAGE, HANDLING AND PRECAUTIONARY INFORMATION

Con<sup>mic</sup>Shield® HD is non-flammable. Store at room temperature. Disposal of Con<sup>mic</sup>Shield® HD can be achieved by the addition of anionic surfactant or detergent in quantity equivalent to that of Con<sup>mic</sup>Shield® HD agent in solution

See SDS for more details

### Con<sup>mic</sup>Shield® HD Partial List of Protection Control

#### Gram-Positive Bacteria

Bacillus subtilis (vegetation forms)  
Corynebacterium sp.  
Lactobacilli sp.  
Methicillin-resistant  
Staphylococcus aureus  
Streptococcus veridan  
Streptococcus fecalis

Streptococcus pneumonia  
Streptomyces sp.

Shigella sp.

#### Fungi

Aspergillus flares  
Aspergillus niger

Aspergillus terreus  
Aspergillus verrucaria  
Alternaria sp.

Cephalascus fragans

Chaetomium globosum  
Epidermophyton sp.

Penicillium sp.

Pullularia pulluans  
Stachybotrys  
Tricoderma sp.  
Trichophyton sp.

#### Yeast

Saccharomyces cerevisiae  
Candida albicans

#### Gram-Negative Bacteria

Aerobacter aerogenes  
Acinetobacter sp.  
Enterobacter sp.  
Escherichia coli  
Klebsiella sp.  
Listeria monocytogenes  
Mycobacterium tuberculosis  
Prtoeus sp.  
Pseudomonas aeruginosa  
Pseudomonas cepacia  
Pseudomonas sp  
Salmonella choleraesuis  
Salmonella typhoea  
Serratia Marcescens  
Thiobacillus

#### Algae

Cyanophyta (blue-green) ocellatoria  
Cyanophyta (blue-green) anabaena  
Chrysophyta (brown)  
Chlorophyta (green)  
Seienastum gracile  
Chlorophyta (green)  
Protococcus

#### Viruses

Herpes Simplex Type 1  
Influenza A  
HIV B

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