

## VIRACOAT-707AM

### *Clear Nano Ceramic Antimicrobial Coating*

#### **VIRACOAT-707AM Clear Nano Ceramic Antimicrobial Coating.**

VIRACOAT-707AM helps to protect treated surfaces from pathogens, bacteria, viruses and other microorganisms from colonizing for extended periods of time or for as long as the coating remains on a treated surface.

VIRACOAT-707AM is a high performance single component ambient air cure thin-film product.

VIRACOAT-707AM creates a covalent bond to the substrate making an intrinsic part of the material.

VIRACOAT-707AM is an extreme hydrophobic coating with super slick properties giving the ability to greatly reduce the bonding of dirt and debris while also reducing coefficient of friction.

VIRACOAT-707AM is a long lasting surface protective coating, that may be reapplied as often as desired.

VIRACOAT-707AM contains a UV or black light tracer allowing for physical inspections to verify that all intended surfaces were coated and/or have remained intact and still offering the intended protection on those surfaces, that were coated.

VIRACOAT-707AM is a clear finish for surfaces such as; plastics, polished metal alloys, painted, powder coated, or Gel-coated® surfaces, etc.

VIRACOAT-707AM helps to protect treated surfaces from UV damage and other environmental corrosion from standard protocol disinfecting cleaners.

#### **VIRACOAT-707AM Properties:**

• Color	Clear
• Viscosity	16-18 sec. #2 Zahn
• Percent of Solids	19
• Odor (liquid)	mint
• Odor (cured)	slight mint
• V.O.C.	Exempt per CFR 51.1 / regulation 8
• RoHS	Compliant
• REACH	Compliant
• Halogens	None
• Thermal Stability (cured)	1200°F + (648.8°C)
• Conical Bond (1/8 inch mandrel)	Passed (ASTM D522-93a)
• Cross cut adhesion	5B (ASTM D3359)
• Coefficient of Friction	0.03μ (ASTM D2047)
• Specific Gravity	0.889 (ASTM D891-09)
• Pencil Hardness	8h (ASTM D3363)
• Average applied dry film thickness	2 to 3 microns
• Estimated Coverage Rate(@ 3 microns)	4,200 sq./ft. per gallon
• Dry to Touch (time @ Room Temp)	1-5 minutes (average)
(A warmer airflow will reduce time required to reach "Dry to the Touch")	
(Exposure to direct sunlight or warmer ambient air will reduce time required to reach a fully cross-linked cure)	

EPA Reg. No. 83019-1

**VIRACOAT-707AM Application:**

- Simply wipe on a thin film of the coating with a product wetted microfiber cloth, let dry, then wipe-off the semi-clear haze with a new clean microfiber cloth.

The VIRACOAT-707AM's antimicrobial formulation helps to continuously protect coated surfaces from the colonization of the following list of microorganisms, thus lowering the bio-burden upon that surface;

- Acinetobacter calcoaceticus
- Aeromonas hydrophilia
- Alternaria alternata
- Anabaena cylindrica
- Aspergillus flavus
- Aspergillus fumigatus
- Aspergillus Niger
- Bacillus cereus
- Bacillus subtilis
- Bacillus typhimurium
- Bipolaris australiensis
- Candida albicans
- Candida parapsilosis
- Cephalascus fragans
- Chlorella
- Chlorophyta (green)
- Chrysophyta (brown)
- Citrobacter diversus
- Cladosporium herbarum
- Clonostachys rosea
- Clostridium perfringens
- Coronavirus, Human
- Corynebacterium bovis
- Corynebacterium diphtheriae
- Cryptococcus humicola
- Cutibacterium acnes
- Enterobacter aerogenes
- Enterobacter agglomerans
- Enterobacter cloacae
- Enterococcus
- Enterococcus faecalis
- Epidermophyton floccosum
- Escherichia coli
- Fusarium nigrum
- Fusarium solani
- Geotrichum candidum
- Gliocladium roseum
- Gliomastix cerealis
- Klebsiella pneumoniae
- Klebsiella terrigena
- Iternaris species [clarification needed]
- Mariannaea elegans
- Microsporium audouinii
- Monilia grisea
- Mycobacterium tuberculosis
- Oospora lactis
- Oospora lactis sp
- Oscillatoria borneti
- Penicillium albicans
- Penicillium chrysogenum
- Penicillium citrinum
- Penicillium notatum
- Penicillium variabilei
- Penicillium notatum
- Pleurococcus
- Proteus mirabilis
- Proteus vulgaris
- Protococcus
- Pseudomonas aeruginosa
- Pseudomonas cepacia
- Saccharomyces cerevisiae
- Salmonella enterica
- Salmonella typhi
- Salmonella typhimurium
- Scenedesmus quadricauda
- Selenastrum gracile
- Serratia liquefaciens
- Serratia marcescens
- Stachybotrys atra
- Stachybotrys chartarum
- Staphylococcus aureus
- Staphylococcus epidermidis
- Streptococcus faecalis
- Streptococcus pyogenes
- Trichoderma flavus
- Trichophyton interdigitale
- Trichophyton mentagrophytes
- Trichosporon mucoides
- Vancomycin-resistant enterococci

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