

Building Better Hygiene with Antimicrobial Concrete

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Incorporating antimicrobial additives into healthcare subfloor concrete is critical because it targets a hidden and persistent reservoir of infection that routine surface cleaning cannot reach. While daily disinfection focuses on visible surfaces, pathogens such as MRSA, E. coli, and other healthcare associated microbes can survive for months on dry surfaces and migrate deep into porous, untreated concrete. Once embedded, they become extremely difficult to eliminate and can contribute to ongoing contamination risks.

The Role of Antimicrobial Concrete

Antimicrobial concrete systems such as Oxtek Solution's Medi Vet range empowered by Biomaster's safe silver ion technology provide a continuous, in-built defence that protects both the surface and the internal concrete matrix. The silver ions disrupt bacterial cell membranes, inhibit respiration, and prevent replication, delivering long term antimicrobial performance.

Key Reasons Antimicrobial Concrete Is Needed for MRSA Control

• Eliminates Hidden Pathogens
Concrete is naturally porous. Microbes can penetrate cracks and joints, creating concealed reservoirs that standard cleaning cannot reach.

• Provides Permanent Protection
Unlike topical disinfectants that evaporate or lose efficacy, the antimicrobial additives are integrated into the concrete itself, remaining permanently active and continuously suppressing microbial growth.

• Manages Moisture and Spills
Healthcare floors are routinely exposed to bodily fluids, cleaning water, and spills. Without antimicrobial treatment, moisture wicks into the concrete, creating ideal conditions for bacterial survival and rapid reproduction.

• Proven 99.995% Efficacy
Independent testing shows antimicrobial treated concrete can achieve a 99.995% efficacy against MRSA, E. coli, and other harmful bacteria.

• Prevent Deterioration of the Subfloor
Antimicrobial protection helps prevent bacterial and fungal degradation of the concrete, extending the lifespan of the flooring system and reducing maintenance costs.

MRSA Survival Realities

• Long Term Persistence
MRSA can survive for months on dry surfaces, including subfloors.

• Increased Resistance Under Dry Stress
Research indicates that MRSA surviving in dry environments may become less sensitive to disinfectants, making built in antimicrobial protection even more critical.

Treating concrete subfloors with Oxtek Solutions' Medi Vet antimicrobial system adds permanent integral protection that helps reduce the spread of infection causing bacteria. By addressing contamination at the structural level, not just the surface, you create a safer, more resilient healthcare environment. ▲

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