

STERILCOAT®

THERMOSET POWDER COATINGS



STERILCOAT® is Protech's anti-microbial powder coating line that inhibits harmful micro-organisms, mold, and bacteria. Laboratory tests demonstrate a significant reduction in microbial populations on Sterilcoat-coated surfaces, which retain their antibacterial properties even after frequent cleaning. The durable powders offer excellent chemical and stain resistance, come in various colors and textures, and are suitable for high-contact surfaces like handrails, fitness equipment, and hospital equipment.



OVERVIEW

Antimicrobial Thermoset Powder Coatings.

Antimicrobial thermoset powder coatings are specially formulated to inhibit the growth of bacteria, mold, and mildew on coated surfaces. Ideal for high-touch environments such as healthcare facilities, public spaces, appliances, and more, these coatings provide long-lasting protection, enhanced hygiene, and peace of mind, without compromising durability or appearance.

MAIN FEATURES

- **Microbial Reduction** – Reduces microbial activity on high-touch surfaces.
- **Pathogen Protection** – Helps stop bacteria and mold from spreading.
- **Long-Lasting Defense** – Maintains antimicrobial effects over time.
- **Wash-Resistant** – Remains effective after repeated cleaning.
- **Chemical & Stain Resistant** – Resists harsh cleaners and stains.
- **Durable Coating** – Long-lasting performance in tough settings.
- **Color & Texture Options** – Available in many finishes and shades.
- **Eco-Friendly** – Low-VOC and sustainable.
- **Silver Ion Technology** – Uses EPA-approved silver ions for protection.

TYPICAL APPLICATIONS

- **Medical Equipment** — Hospital beds, carts, and surgical tools
- **Healthcare Facilities** — Wall panels, handrails, and door hardware
- **Food Processing** — Packaging machinery and storage containers
- **Public Transportation** — Seats, handles, and kiosks
- **Consumer Goods** — Appliances, electronics, and fitness equipment
- **Educational Institutions** — Desks, lockers, and playground equipment
- **Commercial Kitchens** — Food prep surfaces and shelving



OUR SOLUTIONS

We offer advanced, antimicrobial thermoset coatings for a diverse range of applications. If your specific need isn't listed, feel free to contact us—we're here to help.

TECHNICAL PROPERTIES

Essential technical details are outlined below. Full Technical Data Sheet (TDS) available upon request.

TEST METHOD: [JIS Z 2801](#)

NUMBER OF BACTERIA COLONY FORMING UNITS

POWDER / BACTERIUM	0 HOURS (START)	AFTER 24 HOURS
PX622W340 (CONVENTIONAL) ESCHERICHIA COLI NBRC #3972	380 000	27 000 000
PC17651 STERILCOAT® ESCHERICHIA COLI NBRC #3972	380 000	< 100
PC17651 (AFTER 5 WASHINGS) ESCHERICHIA COLI NBRC #3972	380 000	< 100
PS111W2 STERILCOAT® STAPHYLOCOCCUS AUREUS ATCC #6538	380 000	1 100 000
PS111W2 (CONTROL) PSEUDOMONAS AERUGINOSA ATCC #15442	380 000	< 100
PS111W2 STERILCOAT® PSEUDOMONAS AERUGINOSA ATCC#15442	380 000	< 100

NOTE: Results were repeated using five different chemical versions of STERILCOAT®

TEST METHOD: [ASTM E 2180-01](#)
AUDITOR: [BIOSAN LABS INC](#)

NUMBER OF BACTERIA COLONY FORMING UNITS

POWDER / BACTERIUM	0 HOURS (START)	AFTER 2 HOURS	AFTER 8 HOURS	AFTER 24 HOURS
PS111W2 (CONTROL) ESCHERICHIA COLI ATCC #8739	130 000	220 000	1 300 000	2 800 000
PS111W2 STERILCOAT® ESCHERICHIA COLI ATCC #8739	130 000	85 000	170	< 20
PS111W2 (CONTROL) STAPHYLOCOCCUS AUREUS ATCC #6538	150 000	200 000	290 000	450 000
PS111W2 STERILCOAT® STAPHYLOCOCCUS AUREUS ATCC #6538	150 000	63 000	62 000	< 20
PS111W2 (CONTROL) PSEUDOMONAS AERUGINOSA ATCC #15442	4 700 000	5 000 000	65 000 000	26 000 000
PS111W2 STERILCOAT® PSEUDOMONAS AERUGINOSA ATCC#15442	4 700 000	840 000	< 20	< 20

FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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