



POWDER COATING

Technical Data Sheet

Highlights

PPG SilverSan™ antimicrobial-protected powder coatings are specially formulated with silver* ionic technology. SilverSan powder coating slowly releases silver ions, which are known to inhibit the growth of bacteria on powder-coated surfaces.

In research and development since 2001 – and a proven product in the marketplace since 2007 – SilverSan powder coating with silver ionic technology is engineered for use on fitness equipment, metal furniture, home appliances, restroom accessories, air conditioning /air vents, building materials, and laboratory equipment.

*Silver is a registered pesticide with the U.S. Environmental Protection Agency (EPA), which states that pesticides are used to prevent, destroy, repel or mitigate any pest ranging from insects and animals and weeds to microorganisms such as fungi, bacteria and viruses.

Antimicrobial is limited to the treated surface to provide mold and mildew resistance on the paint film and to inhibit the growth of stain and order-causing bacteria that may affect the surface of the coating. The use of these products does not protect users of any such treated article or others against food-borne or disease-causing bacteria, viruses, germs or other disease-causing organisms.

- Available in a wide range of colors and glosses
- Good chemical resistance



TEST CONDITIONS

Property	Test method	Value
Substrate		Pretreated steel panels
Recommended Thickness	ASTM D 7091	2.5 - 3.5 mils
Curing Conditions	Metal Temperature	10 min @ 400 °F

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	80 Minimum
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	100 in-lbs
Conical Mandrel	ASTM D 522	1/8" Mandrel - No cracking
Salt spray	ASTM B 117	1000 hrs
		<1/8" scribe creep No blisters
Humidity	ASTM D 1735	1000 hrs
		<1/16" scribe creep No blisters
Specific gravity	Calculated	1.55 ± .05
Theoretical coverage	Calculated	124 ft²/lbs at 1.0 mil
		25.4 m²/kg at 25 µm



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CURING WINDOW* (object temperature)

See Cure Curve PCT-001

- 20 min @ 350 °F (177 °C)
- 15 min @ 375 °F (191 °C)
- 10 min @ 400 °F (204 °C)

*Temperature and time to be adjusted to accomplish proper curing of coating. This can be achieved using infrared, convection, or combination ovens.

STORAGE STABILITY

24 months at 80 °F maximum

Materials need to be stored in sealed plastic bags under dry and cool conditions. Do not expose to sunlight.

PPG recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

SUBSTRATE PREPARATION

Surface preparation should be chosen according to the type of substrate and required performance. The coater should test the suitability of the surface preparation before the application using appropriate test methods.

APPLICATION RECOMMENDATIONS

- Electrostatic Spray
- Coating can be applied with automatic and manual devices.
- Substrate should be correctly cleaned before use.
- Do not mix this product with other powder coatings.
- Color and finish influenced by film thickness: a good control of the film thickness will help the consistency of the aspect.

HEALTH AND SAFETY

For comprehensive Health, Safety, and Environmental advice, please refer to the relevant Safety Data Sheets, and information printed on the product label.

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