



NATIONAL PAINTS ANTIMICROBIAL - POWDER COATING

Product Description:

National Paints Antimicrobial Powder Coating is a thermosetting powder coating based on Silver Ion Antimicrobial technology to produce a hygienic coating system. The coatings based on this technology provide the required decorative effect as well as chemical and physical properties. It provides extra level of protection against microbial growth on the surface of coated parts.

NP Antimicrobial Powders are available in a variety of colors as per RAL Card, custom made shades in Glossy, Semi-gloss, and Matt finishes. It's available in a variety of technologies, such as: Pure Epoxy, Hybrid, Pure Polyester Architectural and Superdurables, and Ultra Low Bake Powders.

Application Areas:

National Paints Antimicrobial Powder coating is designed to be used on objects where there is a requirement to maintain a low level of microbes, such as food preparation areas and catering items, medical related items, instruments tray, light fixtures, cabinets, beds etc.

Similarly in the areas having more daily usage such as door handles, lockers/changing room, shopping cart, public transport, school, park/playground items, child care facilities & playing area etc.

Powder Application:

National Paints Antimicrobial Powder coating can be applied by automatic corona Electrostatic Powder Spray – 40 to 100 KV. Over spray powder can be reclaimed using suitable equipments and recycled through the coating systems.

Pre-treatment:

Substrate should be free of grease, oil, dirt, finger prints, and drawing compounds, remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The use of a chemical conversion coating prior to the application of a powder coating is strongly recommended i.e. Iron or Zinc Phosphate.

Your World. Our Colors.

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ISO 9001 & 14001
OHSAS 18001
CERTIFIED FACTORY

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Powder Properties:

Chemical Type	-:	Available for indoor & outdoor coating	
Gloss @ 60° (ISO-2813)	-:	High Gloss	- 90 (+/-) 5
		Semi-Gloss	- 77 (+/-) 7
		Matt	- 30 (+/-) 10
		Extra Matt	- 10 (+/-) 5
Particle Size	-:	60% above 32 micron sieve	
Specific Gravity	-:	1.2 – 1.7 (Depending upon the color & Finish).	
Theoretical Coverage	-:	8 – 13sq. meters/kg (as per Dry Film Thickness, Specific Gravity & Transfer efficiency)	
Curing Schedule	-:	200 °C / 10Min & 180 °C / 15Min (metal temp.)	
Flow Out	-:	Very Good	

Coating Properties:

Impact Test Direct	(ISO-6272)	-:	50 kg/cm (No surface cracking)
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Flexibility	(ASTM D 552)	-:	180deg (No surface cracking)
Adhesion	(ISO-2409)	-:	GT – ‘0’
Pencil Hardness	(ASTM D 3363)	-:	H-2H passes (No pencil marks)

Corrosion Testing:

<u>NACL 5% Salt Spray (ASTM B117)</u>			
After 1000 hours	-:	No blistering & loss of adhesion; No undercutting	
<u>Humidity Resistance (ISO 6270-2)</u>			
After 1000 hours	-:	No permeation exceeding 1mm on both sides of the scratch	

Storage Conditions: Store Powder in a Dry cool condition. Do not exceed 33°C. Keep powder in packed condition if not in use to avoid contamination and moisture. Do not mix with any other Powder.

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The information in this Data Sheet is the outcome of NP research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty.