

ANTI-MICROBIAL POWDER COATING

STANDARD CURE POWDER COATING FOR INTERIOR OR EXTERIOR APPLICATION

BioNil uses antimicrobial technology to reduce the number of microbes such as bacteria and mold. Test results have proven reduction of bacteria and mold up to 99.9%

Typical applications

- Door and Window Handles
- Home Appliances
- HVAC
- Lockers
- Bath Fittings and Accessories

All RAL colors are available. Special custom colors can be made available upon inquiry with a minimum order of 100 kg. Fine texture finishes require a 150 kg minimum order. * Gloss level at 60° angle (doesn't apply to metallic effect powder coatings).

Product Performance

Standard Packaging	10 kg & 20 Kg cartons
Specific Gravity	1.3 -1.7 g/cm3 depending on colors
Storage Stability	Use before: 6 months (from month of mfg). Store below 30°C, avoid direct and extended heat exposure.

Features

- Good chemical resistance
- Very good mechanical properties
- Good aesthetics

Performance (When cured at 180°C/ 10 Min EMT for Hybrid and 200°C/ 10 Min EMT for Polyester)

Test	Test Method	Glossy	Semi-Glossy	Matt	Texture	Structure
Film Thickness microns	ISO 2360	50 - 60	50 - 60	50 - 60	60 - 70	80 - 100
Gloss @ 60°	ISO 2813	90 - 95	50 - 60	10 - 20	NA	NA
Adhesion	ISO 2409	Gt-0	Gt-0	Gt-0	Gt-0	Gt-0
Bending	ISO 1519	6 mm	6 mm	6 mm	6 mm	6 mm
Impact Resistance KgCm	ASTM D2794	40 - 160	40 - 160	40 - 160	40 - 80	40 - 60
Pencil Hardness	ASTM D3363	H - 2H	H - 2H	H - 2H	H - 2H	H - 2H
Salt Spray Test	ASTM B117	250 hrs/ 500 hrs/ 1000 hrs				

Note: Above tests done on Tricationic Zinc Phosphated Steel

BioNil has been tested for antimicrobial efficacy in accordance with JIS Z 2801: 2000 and exhibited a minimum of 97% and up to 99.99% reduction in the population of Escherichia coli and Methicillin Resistant Staphylococcus aureus (MRSA). Testing was carried out by an independent laboratory and BioNil has been proven against Acinetobacter baumannii • Bacillus subtilis • Escherichia coli O157 • Enterobacter aerogenes • Enterococcus faecalis • Pseudomonas aeruginosa • Salmonella Enteritidis • Salmonella Typhimurium • Staphylococcus aureus • Staphylococcus epidermidis

Disclaimer The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the MSDS and the TDS for this product. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Finish

Finish	Gloss*
Smooth Glossy	90 - 95
Smooth Semi-Glossy	45 - 65
Matt	10 - 20
Fine Texture	--
Structure	--

Pretreatment

	Steel	Aluminum	Galvanised	Cast Steel	HR Steel
Degreasing					
Chromating					
Chrome Free					
Derusting					
Iron Phosphate					
Zinc Phosphate					
Blasting					
Sweep Blast					

Processing Instructions

The guidelines for application must be strictly observed.