

Supra™ AMC

Product Bulletin

ANTIMICROBIAL
Coil Coating System
Tech Bulletin: 02-100B
August 10, 2023

Tested and Proven Built-in **ANTIMICROBIAL** Protection

- **Globally Available**
- **Excellent Economic Supply**
- **Stocking and Quick Match Programs Available**
- **U.S. WARRANTY Coverage and Support**
- **Custom Formulations Available PVDF, Flex Polyester, Epoxy, SMP, and Acrylic**
- **Long Term International Commercial and Industrial Experience**

System Overview

Supra™ AMC coil coating system manufactured and distributed globally by Continental Coatings Inc. and Yung Chi Paint and Varnish Manufacturing Company Ltd., is a specially engineered **antimicrobial** coil coating system engineered for interior and exterior applications that require long lasting performance, excellent economics and added defense against damaging microbes. The **AMC** system can be applied single coat or as a multi-coat system depending on end use requirements and application specifics. The **AMC** system is formulated with proprietary backbone polymers and well-established, safe and EPA registered built-in antimicrobial additive technology, which lasts the service life of the coating and is U.V., moisture, and weather resistant. Supra **AMC** keeps product surfaces cleaner and safer longer and is very effective against Gram-negative and Gram-positive bacteria, most common yeasts, molds, and fungi that can cause stains, odors, product degradation and contribute to unhealthy environments.

Supra™ AMC may be applied single coat or over the Universal **PU-11 High Molecular Weight Urethane Primer or PU-30 High-build Urethane primer systems** for extreme environment and long service life product applications.

Application Parameters

Supra™ AMC system is designed for trouble free high line speed coil coating line application and has been run worldwide under a very wide range of application parameters and substrate conditions. Standard topcoat DFT is .60-.70 mils, however, custom low film and low temperature cure systems are available. **AMC** was formulated to provide very good stain, scratch, mar and scuff resistance, and can be formulated into super flexible systems suitable for most tough fabrication applications.

Commercial Uses

Supra™ AMC system can be formulated in standard, medium, textured, and low gloss / low sheen finishes and supplied in a very wide range of colors and effects. This coating does carry a limited exterior warranty when required and can be applied to a variety of adequately cleaned and treated metal substrates including: Hot Dipped Galvanized, ZnAl, Galfan®, ZAM®, Aluminum, and Stainless Steels. **Supra™ AMC** is formulated with an excellent balance of flexibility and hardness but can be custom modified for specific applications that require unique or special physical property performance. **Supra™ AMC** system is ideal for many general interior and exterior applications like ceiling, wall, door and window systems, Liner Panel, shade and shelter systems, various white goods including sign blank and lighting, office furniture, appliances, cooler and HVAC applications.

Antimicrobial Coil Coating System

APPLICATION

SPECIFICATION	TEST	RESULT
Application Method		Reverse Roll Coat
Primer		None, PU11 HMW PU, PU30 High Build PU
Substrate		Aluminum, HDG, Galvalume®, ZAM® and Stainless
Pretreatment	Standard clean and treat	Chrome, Zinc Phosphate, or approved non-chrome
ASTM D 4138	Dry Film Thickness	Top coat: 0.7 to 0.8 mils Primer: 0.0 to 0.3 mils Total system: 0.6 to 1.1 mils
ASTM D 4212	Viscosity (No. 4 Zahn cup)	25 to 35 seconds
ASTM D 1475	Weight Per Gallon	9.0 to 12.0 Pounds Per Gallon
ASTM D 2697	Solids Per Volume	40 to 55%
ASTM D 2369	Solids Per Weight	52 to 75%
Reducing Thinner	Reducing Solvent	Aromatic
ASTM D 3960	VOC (Theoretical)	3.0 to 4.0 Pounds Per Gallon
Clean-up Solvent		Aromatic/Ketone
Coating Mileage		800 to 1357 Sq. Ft./Gallon
Peak Metal Temperature		435 to 480 F

TECHNICAL DATA

SPECIFICATION	TEST	RESULT
ASTM D 523	Specular Gloss at 60	6 to 85
ASTM D 3363	Pencil Hardness	H to 3H
ASTM D 4145	T-Bend	1T to 4T with no loss of adhesion
ASTM D 5402	Solvent Resistance (MEK Rubs)	100+
ASTM D 3359	Cross Hatch Adhesion	No loss of adhesion
ASTM D 2794	Reverse Impact	Galvanume or HDG: 3 x metal thickness inch-pounds, no loss of adhesion Aluminum: 1.5 x metal thickness inch-pounds, no loss of adhesion
ASTM B 117	Salt Spray Resistance 1,000 hrs. Salt Spray Resistance 2,000 hrs.	Galvanume or HDG: Creep from scribe < 1/8 inch (3mm), none or few #8 blisters Aluminum Creep from scribe < Creep from scribe < 1/8 inch (3mm), few #8 blisters
ASTM D 2244 ASTM D 4214	South Florida Exposure	Color: No more than 5 (E) Hunter units at 90 vertical angle and 7 (E) units non vertical Chalk: Rating no less than 8 at 90 angle and 6 at non vertical angle Film Integrity: 20 years, no blisters, peeling or cracking
ASTM D 870	Water Immersion 100 F 168 hrs.	No field blisters with minimal color change
ASTM G 21	Fungal Efficacy Testing	Pass - No objectionable growth
AATCC Method 100	Bacteria Testing	Pass - No objectionable growth
JIS 2801	Antimicrobial Efficacy	Pass - Antimicrobial Activity Value > 2.0

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