



COC (Certificate of Conformance)

- to Mil-Spec standard

For military specification (Mil-Spec) information, the primary resource is the Defense Standardization Program (DSP), managed by the [Defense Logistics Agency \(DLA\)](#).

Decorative or Functional Coating

Date 2025

Product Name RAL 9010 Pure White Hi-Durable (SD), Super Durable Polyester

Product Number R-9010-SD Batch# _____, Lot# _____

Formulation Polyester TGIC Customization = none

Color Description & Features

A solid coating (Pure White), with an ultra-smooth flat finish. Formulated in a single stage Polyurethane, for good weatherability and excellent chemical resistance.

- Architectural & Military Approval (AAMA)
- Excellent UV Protection
- Good Scratch & MAR Resistance

- Excellent Chemical Resistance
- Excellent Mechanical Properties
- Exceptional Weathering Properties

Physical Properties

Film Thickness (ASTM D)	2.5 – 4.5 mil
Gloss 60°angle (ASTM D-523-89)	90% - 95% +/-
Hardness (ASTM D-3363-92A)	2H
Flexibility (ASTM D-1737-89)	1/8 inch
Adhesion (ASTM D-3359-95A)	5b (100%)
Impact Direct (ASTM D-2794-93) 1/10" distortion	120/120 inch-lb. No removal
Salt Spray (ASTM B117)	3,000 Hrs. + < 3mm
Specific Gravity	1.39±0.05
Theoretical Coverage Calculated at 1.0 mil	136 Sq. Ft. per pound @ 1.0 mil

Humidity Resistance (ASTM D-1735) 100% relative humidity @ 100°F Meets or exceeds specification of few # 8 blisters maximum	* 3,000 Hrs. + < 3mm
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Physical Properties – continued		
Exterior Exposure – Constant Testing- 5-yrs. @ 45°, South Florida (Minimum UV Rating = 5-years)	Film Integrity (Standard Test) Chalking Test (ASTM D4214) Standard Test (ASTM D3344) Gloss Retention (Standard Test) n/a	Very Good Maximum 8 chalk Maximum 5 fade Greater than 30% **
Chemical Exposure	Excellent – MEK Resistance (Double-Rubs) = 50 – Softens & Recovers	
Recommended Bake	10 Minutes at 400 °F Part Metal Temperature via Electrostatic Spray Gun	
Shelf Life (from Date of Manufacture)	12 months (shelf life significantly longer can be achieved when stored properly)	
Storage (@40-60% RH)	temperatures below 80 °F, away from any moisture or heat source.	
Please refer to the SDS (Safety Data Sheet) for any additional storage, handling, or safety information.		

American Architectural Manufacturers Association (AAMA) Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels. Publication **No. AAMA-2604**. While this coating has been formulated with the intent to meet the specifications in **AAMA 2604**, completed testing regarding South Florida Weathering requirements does not exist for all colors. Each production batch is made to the same specifications as the fully tested base formula regardless of color type.

* Film Properties were determined using 2.0 - 3.0 mils powder film over iron phosphate, chrome rinse pretreated, 22-gauge, unpolished cold rolled steel test panels.

** Primers and lower gloss finishes (Semi-Gloss, Satin, Matte) are excluded. ASTM Gloss Retention Testing applies to high gloss coatings with 80 – 100% gloss level using the 60° angle (ASTM D-523-89). Gloss retention diminishes slowly due to UV exposure, taking years to drop from 90 – 100% high gloss to 60 – 80% semi-gloss.

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