



CUSTOMIZED TO MEET YOUR BUILDING PRODUCT REQUIREMENTS

PolyPREMIER, by Sherwin-Williams Coil Coatings, is a line of multi-purpose polyester coatings formulated specifically for metal building and multi-purpose product components. We understand that every business and product has varied coating requirements, which is why we work directly with our customers to formulate each coating to your performance and application needs. With a commitment to knowing your business as well as you do, we deliver solutions specifically for optimizing your product needs. Enhance your next project with solutions from PolyPREMIER line of products.

POLYPREMIER CUSTOMIZATIONS

We can customize PolyPREMIER products to fit your unique needs. This includes optimizing formulations for your fabrication process, end-use and other key characteristics. The following attributes are just a few highlights of how the PolyPREMIER product line can be optimized for your application.

- **FLEXIBILITY/FORMABILITY**

Formulate your polyester coating with increased flexibility during the fabrication process, withstanding metal drawing without cracking as the final piece is formed.

- **NON-FOGGING**

Developed specifically for window trim applications, such as muntin bars and screen frames, this formulation helps prevent fogging on glass.

- **HIGH-GLOSS MICA/METALLIC**

Add a sparkle to your finish using a polyester coating that helps your building products stand out.

- **TEXTURED HIGH GLOSS**

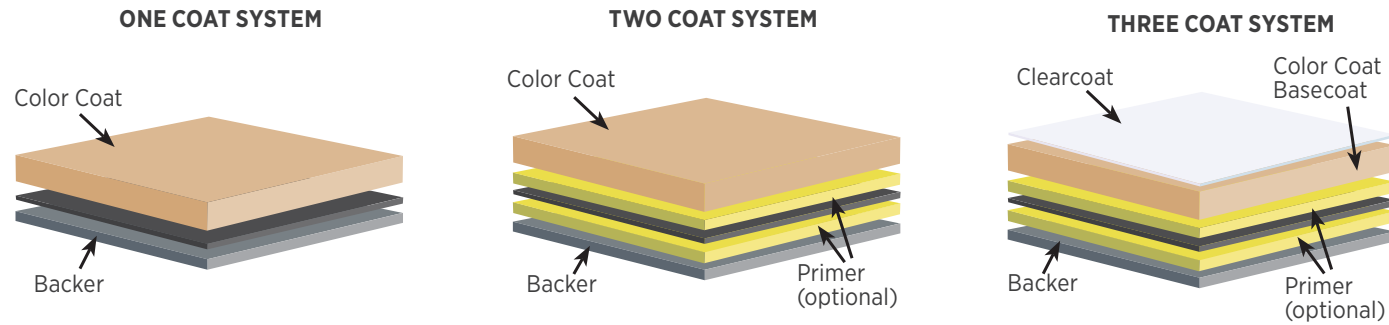
With a basecoat and clear topcoat, this polyester formulation can achieve a visually high-gloss, textured finish that enhances abrasion resistance, dirt release properties and durability for mobile homes, mini-barns, storm doors and other exterior applications.

- **DAMAGE RESISTANT**

If you need a harder coating to curtail field installation problems associated with marking and marring, we can provide formulations that deliver exceptional post-forming performance for soffits and fascias.

- **USDA COMPLIANT**

This polyester formulation is a bright white, USDA-compliant finish that is recommended for spaces where incidental contact with food occurs. It is designed to remain a bright white color in highly acidic and corrosive environments.



COMMITMENT TO QUALITY

Our coatings are trusted and field-proven through rigorous testing, providing key benefits to our customers.

POLYPREMIER PERFORMANCE TESTING

Industry Specifications Compliance	AAMA 2603-17A Requirements	Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels
Substrates	Pretreated Aluminum, Cold Rolled Steel (CRS), Galvalume® and Hot-Dipped Galvanized (HDG) steel*	

*Other substrates available by approval by Sherwin-Williams Coil Coatings R&D.

COATING SYSTEM	Number of Coats	Dry Film Thickness (DFT)			Total Topside DFT:	Primer (optional)	Backer*
		Clearcoat (optional)	Color Coat/ Basecoat	Primer (optional)			
POLYPREMIER	1-, 2-, or 3-coats	0.35-0.45 mils	0.50-0.85 mils	0.15-0.40 mils	0.65-1.55 mils	0.30-0.40 mils	0.15-0.40 mils

*A backer is dependent on the application and gloss level.

MAKE AN INFORMED DECISION

There are many things to consider as we guide you through the process of specifying a customized PolyPREMIER solution for your next project. First and foremost, understanding the END USE is crucial to a project's overall success. This crucial piece of information helps Sherwin-Williams Coil Coatings experts assess which coating characteristics need to be optimized to meet your unique application needs.

One size does not fit all. As a collaborative partner, we're committed to working with you to formulate a coating to take your product to the next level. Below is a summary of questions we may ask as we begin the process of developing your coating:

WHAT IS THE END USE APPLICATION OR PART?

WHAT IS THE SUBSTRATE?

WHAT ARE THE KEY FINISH PERFORMANCE REQUIREMENTS?

WHAT OTHER SPECIFICATIONS ARE CRITICAL TO THE SUCCESS OF YOUR PRODUCT?

Together, we can define the best solution to bring your vision to life.



BENEFITS

Through customized formulations, PolyPREMIER polyesters can deliver a multitude of benefits, including, but not limited to:

- Outstanding resistance to sun, rain and other elements
- Exceptional abrasion and scratch resistance
- Good dirt and stain resistance
- Excellent overall adhesion
- Great flexibility & formability
- Strong exterior durability
- Impressive color and gloss retention

SUBSTRATES

PolyPREMIER coatings can be applied to the following substrates, but not limited to:

- Aluminum
- HDG (Hot-Dipped Galvanized Steel)
- CRS
- Galvalume

COLORS

With our exceptional tinting system, PolyPREMIER coatings are offered in a wide variety of colors. Please work with the experts on our color science team to determine the right color for your project.

PHYSICAL TESTING	ASTM TEST METHOD	AAMA 2603-17A REQUIRED TEST RESULT
Abrasion Resistance	ASTM D968, Method A	Total Sand = 35 ± 5 liters
Cross Hatch Adhesion	ASTM D3359	No loss of adhesion between coating and substrate to point of metal rupture with 1/8" cross hatch scribe pattern through coating to bare metal
Film Adhesion (Dry, Wet, Boiling Water)	ASTM D3359	No removal of film under tape in cross-hatched area
Graffiti Resistance	ASTM D6578/D6578M	Meets and exceeds
Humidity Resistance	ASTM D2247: 100% RH for 2,000 hours	2,000 hours: No blistering or loss of adhesion
Impact Resistance	ASTM D2794	Aluminum: 1.5x metal thickness inch-pounds, no loss of adhesion. CRS, HDG or Galvalume: 3x metal thickness, no loss of adhesion.
Pencil Hardness	ASTM D3363	F-2H
Salt Spray	ASTM D1654: 5% Salt Fog at 95°F for 250 hours 5% Salt Fog at 95°F for 1,000 hours	CRS: no field blistering, no more than 1/8" creep from the scribe Aluminum: No field blistering, no more than 1/32" creep from the scribe HDG: Creep from scribe ≤ 1/8" (3mm), few #8 blisters. Number of hours tested varies by substrate and/or primer selected.
Specular Gloss 60°	ASTM D5232	PolyPREMIER: 8-65 Non-Fogging: 25-80 Mica/Metallic: 15-85+, +/-5 units of manufacturer's specification USDA: 30-40
T-Bend	ASTM D41453, ASTM D41455	PolyPREMIER: 0T-4T, no loss of adhesion, USDA: 2T-3T, no loss of adhesion, Non-Fogging: 0T-1T single coat or two coats on aluminum, Texture: 1T-2T, system flexibility varies with basecoat selection, Mica/Metallic: 0T-2T depending on resin system, with no loss of adhesion

END USES

The metal building products that PolyPREMIER coatings can be applied to include:

- Architectural metal siding and roofing systems
- Awnings
- Building accessories
- Enclosures
- Fascia
- Interior liner panels, doors and trim
- Metal furniture
- Mini-barns
- Muntin bars
- Pontoon boats
- Rainware
- Residential siding
- Satellite dishes
- Screen frames
- Soffits
- Storage buildings
- Storm doors
- Swimming pools
- Trim coil
- Window trim



WHERE INNOVATION MEETS CUSTOMIZATION

DO YOU HAVE A UNIQUE APPLICATION?

We'll work with you to find a solution. Want a unique color? We'll create it for you. Need a quick turnaround? Talk to us, and we'll help you get your project completed on time.

Enhance your next project with PolyPREMIER. Contact your local Sherwin-Williams Coil Coatings sales representative to discuss your polyester formulation needs.

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All tests do not pertain to all products/substrates/end uses combination. Testing is specific to end use and product selected. ¹American Architectural Manufacturers Association. ²American Society for Testing and Materials. ³PolyPREMIER is not designed to bridge cracks in the substrate. PolyPREMIER coatings will generally meet the requirements for most post-painted fabrication processes. However, variations in metal quality, thickness or cleaning/pretreatment applications can lead to diminished flexibility.

For details and health, safety and handling information, Material Safety Data Sheets (MSDS) are available at coil.sherwin.com. PolyPREMIER™ is a trademark of Sherwin-Williams. Galvalume® is a registered trademark of BIEC International, Inc.

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