

Group	123 – Architectural Polyester Matt
Curing	min: 180°C @ 20' to 35'   max: 200°C @ 10' to 15'
Surface	Smooth matt
Gloss	Matt (25-35 at 60°)
Approvals	Qualicoat: P-0587   GSB Florida 1 Quality : 152 f   EN 12206-1:2021

### PRODUCT DESCRIPTION

A matt TGIC-free thermosetting polyester powder coating featuring excellent resistance to UV radiation and outdoor weathering. The powder forms a protective and decorative film with enhanced outdoor resistance.

PE/P/M is designed to protect aluminum and galvanized steel components used in the fenestration industry and carry GSB (152f) and Qualicoat class 1 (license P-0587) certification

Typical applications are door, window and cladding installations on domestic and commercial buildings.

#### **Advantages:**

- RAL colors on stock
- Excellent outdoor durability
- Qualicoat and GSB approved

#### **Storage Life:**

Store at temperatures lower than 30°C.  
Storage life in original package: 24 months.

### CHARACTERISTICS

**Spec. Gravity (kg/l):** 1,25 – 1,80  
**DFT (micron):** 60 - 80  
**Theoretical Coverage @60um:** 11 m<sup>2</sup>/kg

**Recommended dry film thickness:**  
60 - 80 µm

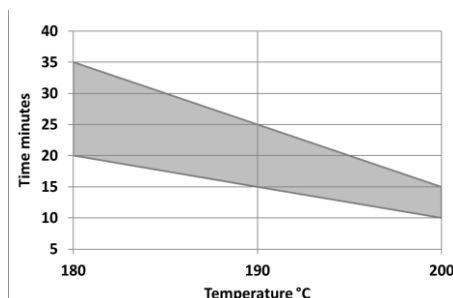
**Reaction To Fire EN 13501-1**  
Classification: A2-s1,d0

### APPLICATION

Suitable for automatic and manual electrostatic application  
Please contact your Sherwin-Williams representative to discuss tribo-static application

#### **Curing Cycle**

Time	Substrate temperature
10-15 min	200°C
15-25 min	190°C
20-35 min	180°C



### CHEMICAL RESISTANCE

The chemical resistance test was carried out on chromatised aluminium.

Immersion testing for 48 hours at ambient temperature:

Chemical	Effect
hydrochloric acid 10 %	No change
Nitric acid 30 %	matt, but washing off
Sulphuric acid 10%	No change
hydrogen peroxide 40 vv	No change
ammonium hydroxide 10%	No change
ammonium hydroxide 33 %	No change
sodium hydroxide 5%	No change
tartaric acid 5%	No change
citric acid 5%	No change
lactic acid 5%	No change
ethanol	No change
N-butanol	No change
petroleum ether	slightly softened

### SUBSTRATE PREPARATION

The surface treatment should be chosen according to the type of substrate and the required performance.

The surface to be coated must be free from oxidation, oil, grease or any other form of contamination.

A good quality pretreatment process is recommended for optimum performance, certified products can be found via Qualicoat, GSB or Qualisteelcoat.

Final user should select the proper pretreatment based on corrosion resistance performance.

Where required, the corrosion resistance can be enhanced using a primer system.

		Substrate				
		Aluminum	Steel	Galvanized Steel	Metallized Steel	Steel
Chemical	Cr-free (Zr, Ti, Oxilanes or alternatives)	✓		✓		
	Pre-anodising	✓				
	Chromate	✓		✓		
	Phospho-chromate	✓				
	Iron phosphate		✓			
	Zinc phosphate		✓	✓		
	Nano-ceramic		✓			
Mechanical	Sand blasting		✓			
	Soft blasting			✓	✓	
	Sweeping			✓	✓	

#### PERFORMANCE DATA

A coated aluminum panel (ALQ-36), DFT 60µm, stoving 20' @ 180°C satisfied the following requirements,

**Buchholz indentation test:**

more than 90  
UNI EN ISO 2815

**Erichsen cupping test (mm):**

more than 5  
UNI EN ISO 1520

**Direct impact test (cm.Kg):**

more than 25  
ASTM D 2794; ISO 6272-2:2002

**Reverse impact test(cm.kg):**

more than 25  
ASTM D 2794; ISO 6272-2:2002

**Cylindrical mandrel size 5:**

does not break  
UNI EN ISO 1519

**Crosscut adhesion (2mm) (GT):**

Class 0  
UNI EN ISO 2409

**Acetic salt fog test:**

according to  
Qualicoat and GSB International  
Requirements UNI ISO 9227

(Humidity test) 1000 hours  
no blistering, infiltration from the cross  
of max 1mm  
UNI EN ISO 6270-2:2005

**Accelerated Weathering:**

1000h Xenon-arc  
≥ 50% gloss retention  
According with Qualicoat cycle  
(ISO16474-2)

300h UV-B:  
≥ 50% gloss retention  
According with GSB cycle (ISO16474-3)

#### CAUTION

##### **FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Safety Data Sheet (SDS) prior to using this product.

A Safety Data Sheet is available from your local Sherwin-Williams facility or distributor

**Note:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the user obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in user handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.