

Group	119 – Architectural Polyester Standard
Curing	min: 180°C @ 20' to 30' max: 200°C @ 10' to 18'
Surface	Fine Textured
Gloss	N/A
Approvals	Qualicoat n° P-0586 / GSB Florida 1 Quality (I.280c)

PRODUCT DESCRIPTION

A TGIC-free thermosetting polyester powder coating featuring excellent resistance to UV radiation and outdoor weathering.

The PE/P/Q Fine Texture range is designed to protect and decorate aluminium and galvanised steel components used in architectural applications and is particularly suited for doors, windows, cladding, balconies and other fenestration products.

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 m²/kg

Recommended film thickness:

Dry: 60 -80 microns

Reaction To Fire EN 13501-1

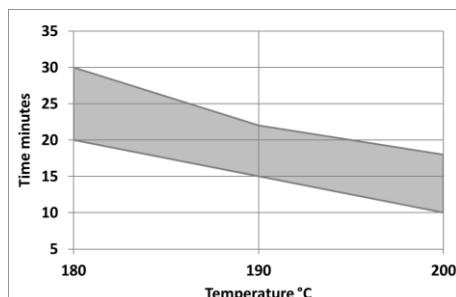
Classification: A2-s1, d0

APPLICATION

Suitable for automatic and manual electrostatic application
Please contact your Sherwin-Williams representative to discuss tribo-static application
Optimum performance is achieved with a dry film thickness of 60-80 microns.

Curing Cycle

Time	Substrate temperature
10-18 min	200°C
15-22 min	190°C
20-30 min	180°C



CHEMICAL RESISTANCE

Immersion method for 48 hours at ambient temperature:

CHEMICAL	RESULT
Hydrochloric acid 10 %	intact
Nitric acid 30 %	intact
Saturated hydrogen sulphide	intact
Hydrogen peroxide 40 volumes	intact
Ammonium hydroxide 10 %	intact
Ammonium hydroxide 33 %	intact
Sodium hydroxide 5 %	intact
Tartaric acid 5 %	intact
Citric acid 5 %	intact
Lactic acid 5 %	intact
Ethanol	intact
N-butanol	intact
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.

Pretreatment		Substrate			
		Aluminum	Steel	Galvanized Steel	Metallized 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 60um coating layer applied to a pretreated aluminium panel and cured 20 minutes at 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

Resistance to humidity :

(Humidity test) 1000 hours
no blistering,
indentation along the cross of
maximum 1 mm
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.