



PURE EPOXY GLOSSY

Series Identification Code 70

Product Description

Epoxy based powder coatings are mainly used for their excellent chemical and corrosion resistance combined with very good adhesion properties. They are not recommended for use on materials exposed to outdoor environment.

Popular Applications

Fire Extinguishers
Bathroom Fixtures
Dryer Drums
Pipe Coatings
Power Tools
Analytical Instrument Covers

General Specifications

Specific Gravity: 1.2 to 1.8 depending on product
Particle Size Distribution: < 125 microns 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 minutes
Shelf Life: Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	50–60 microns
Gloss Range @ 60° Gloss Head	Marpol Standard	85%–95%
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	Not applicable
Pencil Hardness	ASTM D-3363	H–3H



PURE EPOXY MATT

Series Identification Code 72

Product Description

Epoxy based powder coatings are mainly used for their excellent chemical and corrosion resistance combined with very good adhesion properties. They are not recommended for use on materials exposed to outdoor environment.

Popular Applications

Fire Extinguishers
Bathroom Fixtures
Oil Filters
Dryer drums
Power Tools
Instrument Cases

General Specifications

Specific Gravity: 1.2 to 1.8 depending on product
Particle Size Distribution: < 125 microns 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 minutes
Shelf Life: Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	50–60 microns
Gloss Range @ 60° Gloss Head	Marpol Standard	10%–45%
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	Not applicable
Pencil Hardness	ASTM D-3363	H–3H



EPOXY POLYESTER GLOSSY

Series Identification Code 75

Product Description

Epoxy Polyester based powder coatings are mainly used for interior general purpose and external application where there is no prolonged exposure to direct sunlight.

Popular Applications

Office Furniture

Hardware

Light Fittings

Switchgears/Starters

Hot Water Radiators

Generator Sets

Oil Filters

General Specifications

<i>Specific Gravity:</i>	<i>1.2 to 1.8 depending on product</i>
<i>Particle Size Distribution:</i>	<i>< 125 microns 100% passing</i>
<i>Curing Schedule:</i>	<i>180°C (Object Temperature) / 15 minutes</i>
<i>Shelf Life:</i>	<i>Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%</i>

General Film Properties

Property	Test Method	Value
<i>Recommended Film Thickness</i>	<i>ASTM D-1186</i>	<i>50–60 microns</i>
<i>Gloss Range @ 60° Gloss Head</i>	<i>Marpol Standard</i>	<i>85%–95%</i>
<i>Impact Resistance</i>	<i>ASTM D-2794</i>	<i>100 kgs minimum</i>
<i>Erichsen Cupping</i>	<i>ASTM E-643</i>	<i>6 mm minimum</i>
<i>Flexibility Bend</i>	<i>ASTM D-552</i>	<i>6 mm minimum</i>
<i>Scratch Hardness</i>	<i>BS 3900 Part E6</i>	<i>2 kgs minimum</i>
<i>Salt spray Resistance</i>	<i>ASTM B-117</i>	<i>1000 hours minimum</i>
<i>Humidity Resistance</i>	<i>ASTM B-2247</i>	<i>1000 hours minimum</i>
<i>QUV Resistance</i>	<i>ASTM G-53</i>	<i>Not applicable</i>
<i>Pencil Hardness</i>	<i>ASTM D-3363</i>	<i>H–3H</i>



EPOXY POLYESTER MATT

Series Identification Code 76

Product Description

Epoxy polyester matt finishes are used where high gloss as an attribute is not critical. These are mainly used on articles that do not require constant exposure to sunlight. Being a hybrid, it demonstrates corrosion resistance with moderate outdoor weathering.

Popular Applications

*Wrought Iron Furniture
Aluminum Die Cast Components
Brassware
Control Panels
Grease Cans
Gas Regulators
Electric Meters*

General Specifications

*Specific Gravity: 1.2 to 1.8 depending on product
Particle Size Distribution: < 125 microns 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 minutes
Shelf Life: Maximum 6 months from the date of manufacture
in a sealed carton under recommended conditions
of storage < 25°C and RH < 60%*

General Film Properties

Property	Test Method	Value
<i>Recommended Film Thickness</i>	<i>ASTM D-1186</i>	<i>50–60 microns</i>
<i>Gloss Range @ 60° Gloss head</i>	<i>Marpol Standard</i>	<i>10%–45%</i>
<i>Impact Resistance</i>	<i>ASTM D-2794</i>	<i>100 kgs minimum</i>
<i>Erichsen Cupping</i>	<i>ASTM E-643</i>	<i>6 mm minimum</i>
<i>Flexibility Bend</i>	<i>ASTM D-552</i>	<i>6 mm minimum</i>
<i>Scratch Hardness</i>	<i>BS 3900 Part E6</i>	<i>2 kgs minimum</i>
<i>Salt Spray Resistance</i>	<i>ASTM B-117</i>	<i>1000 hours minimum</i>
<i>Humidity Resistance</i>	<i>ASTM B-2247</i>	<i>1000 hours minimum</i>
<i>QUV Resistance</i>	<i>ASTM G-53</i>	<i>Not applicable</i>
<i>Pencil Hardness</i>	<i>ASTM D-3363</i>	<i>H-3H</i>



EPOXY POLYESTER TEXTURES

Series Identification Code 77

Product Description

Textures are available in pure epoxy , epoxy polyester or pure polyester chemistry. The surface appearance is consistently generated due to our close understanding of performance of each component added in these formulations.

Popular Applications

Moulded Furniture
Control Panels
Cupboards
Safes

Textile Machinery Parts
Amplifiers
Stabilizers and Public Address Systems
Software Panels

Pure Polyester Textures are available in the 95 Series under Q SHIELD brand name.

General Specifications

Specific Gravity: 1.4 to 1.8 depending on product
Particle Size Distribution: < 200 micron 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 Minutes
Shelf Life: Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	60 microns minimum
Gloss Range @ 60° Gloss Head	Marpol Standard	Visually observed
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	Not applicable
Pencil Hardness	ASTM D-3363	2H-3H (for very fine patterns)



EPOXY POLYESTER STRUCTURES

Series Identification Code 78

Product Description

Pure epoxy , pure polyester and epoxy polyester structures are made by careful selection of an additive that enables Marpol to give different, defined structure patterns that can be repeated consistently.

Popular Applications

Office Furniture
Control Panels
Switch Gear Covers
Computer Covers
Telephone Coin Boxes

Pure Polyester structures are available in the 95 Series under the Q SHIELD brand name.

General Specifications

Specific Gravity: 1.4 to 1.8 depending on product
Particle Size Distribution: < 200 microns 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 minutes
Shelf Life: Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	60 microns minimum
Gloss Range @ 60° Gloss Head	Marpol Standard	Visually observed
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	Not applicable
Pencil Hardness	ASTM D-3363	2H-3H (for very fine patterns)



EPOXY POLYESTER SATIN

Series Identification Code 79

Product Description

Epoxy polyester satins are mainly used for their sober, pleasing looks and also for their ability to hide surface ripples on the metal.

Popular Applications

Machine Tool Enclosures
Offset Machine Parts
Wrought Iron Furniture
Underhood Auto Components

General Specifications

Specific Gravity: 1.2 to 1.8 depending on product
Particle Size Distribution: < 150 micron 100% passing
Curing Schedule: 180°C (Object Temperature) / 15 minutes
Shelf Life: Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%

General Film Properties

Properties	Test Method	Value
Recommended Film Thickness	ASTM D-1186	50–60 microns
Gloss Range @ 60° Gloss Head	Marpol standard	20%–65%
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	Not applicable
Pencil Hardness	ASTM D-3363	3H



EPOXY POLYESTER NOVELTIES

Series Identification Code 80

Product Description

These powder coatings are mainly used for decorative purposes. They produce different surface finishes like hammertone, antique, bronze on metallic substrates and also can be used as a replacement for dyed anodizing used for coating aluminium. These are interior grade powders.

Popular Applications

Furniture

Ironware

Aluminum Sections

Presentation Articles

Garden Tools

Novelties are also available in Pure Polyester (95 Series) under the Q SHIELD brand name and are used as a substitute for anodizing and dyeing of aluminum sections due to its excellent weathering properties and resistance to UV light.

General Specifications

Specific Gravity:

1.2 to 1.8 depending on product

Particle Size Distribution:

< 150 microns 100% passing

Curing Schedule:

180°C (Object Temperature) / 15 minutes

Shelf Life:

Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage

General Film Properties

Properties	Test Method	Value
Recommended Film Thickness	ASTM D-1186	70–80 microns (other than Starlits) 50–60 microns for Starlit Range
Gloss Range @ 60° Gloss head	Marpol Standard	80% minimum for Starlit range Visually observed for others
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	300 hours minimum only for Q SHIELD range (PP series) Others - Not applicable
Pencil Hardness	ASTM D-3363	Not applicable



PURE POLYESTER

Q SHIELD

Series Identification Code 95

Product Description

Polyester based powder coatings are mainly used for their excellent outdoor durability and acceptable chemical resistance combined with very good adhesion properties. They are mainly recommended for use on materials exposed to outdoor environment that requires gloss retention over long periods.

Popular Applications

Aluminium Sections

Bicycle Frames

Outdoor Furniture

Air Conditioner Covers

Petrol Pump Canopies

Display Boards

Auto Components

Agricultural Components

General Specifications

Specific Gravity:

1.2 to 1.8 depending on product

Particle Size Distribution:

< 125 micron 100% passing

Curing Schedule:

180°C (Object Temperature) / 15 minutes

Shelf Life:

Maximum 6 months from the date of manufacture in a sealed carton under recommended conditions of storage < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	50–60 microns
Gloss Range @ 60° Gloss Head	Marpol Standard	40%–98%
Impact Resistance	ASTM D-2794	100 kgs minimum
Erichsen Cupping	ASTM E-643	6 mm minimum
Flexibility Bend	ASTM D-552	6 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	300 hrs passes
Pencil Hardness	ASTM D-3363	2H–3H



POLYURETHANE

Q SHIELD PLUS

Series Identification Code 85

Product Description

These are thermoset powders based on polyester and urethane hardeners. They are designed for decorative & functional applications where surface smoothness and exterior durability is a requirement. These coatings offer excellent flow, high surface Distinctness of Image (DOI).

Popular Applications

Architectural Sections

Automotive Parts

Bicycles

Agricultural Machinery

Exterior Lighting Fixtures

Satellite Dishes

Lawn and Patio Furniture

Fencing

Ornamental Iron

Generator Sets

General Specifications

Specific Gravity:

1.4 to 1.7 g/cc depending on product

Particle Size Distribution:

100±4 microns 100% passing

Curing Schedule:

200°C (Object Temperature) / 10 minutes

Shelf Life:

Maximum 24 months from the date of manufacture in a sealed carton under recommended storage conditions < 25°C and RH < 60%

General Film Properties

Properties	Test Method	Value
Recommended Film Thickness	ASTM D-1186	30-40 microns
Gloss Range @ 60° Gloss Head	Marpol Standard	55%–86%
Gloss Range @ 20° Gloss Head	Marpol Standard	45%–85%
Impact Resistance	ASTM D-2794	100–250 kg cms reverse impact
Erichsen Cupping	ASTM E-643	7 mm minimum
Flexibility Bend	ASTM D-552	4 mm minimum
Scratch Hardness	BS 3900 Part E6	2 kgs minimum
Salt spray Resistance	ASTM B-117	1000 hours minimum
Humidity Resistance	ASTM B-2247	1000 hours minimum
QUV Resistance	ASTM G-53	500–1000 hours minimum
Pencil Hardness	ASTM D-3363	2H–3H



LOW CURE POWDER – EPOXY POLYESTER

Series Identification Code 10

Product Description

Low Cure Powder Coatings are specially formulated and manufactured to provide substrate protection and durability for a wide range of applications with the advantage of enhanced process-ability over standard cure powders.

Popular Applications

Appliances

AC compressors

Electric motors

Automotive radiators

Heavy mass castings such as sewing machine stands, auto springs

General Specifications

Specific Gravity:

1.6 ± 0.3 depending on product

Particle Size Distribution:

< 125 microns 100% passing

Curing Schedule:

150°C (object temperature) for 10 minutes

Shelf Life:

6 months minimum when stored at temperature < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
<i>Recommended Film Thickness</i>	<i>ASTM D-1186</i>	<i>50–60 microns minimum</i>
<i>Gloss Range @ 60° Gloss Head</i>	<i>Marpol Standard</i>	<i>55–95%</i>
<i>Impact Resistance</i>	<i>ASTM D-2794</i>	<i>80 kg-cm*</i>
<i>Erichsen Cupping</i>	<i>ASTM E-643</i>	<i>6 mm, min</i>
<i>Flexibility Bend</i>	<i>ASTM D-552</i>	<i>6mm, min</i>
<i>Scratch Hardness</i>	<i>BS 3900 Part E6</i>	<i>2 kgs min</i>
<i>Salt spray Resistance</i>	<i>ASTM B-117</i>	<i>500–1000 hrs depending on finish</i>
<i>Humidity Resistance</i>	<i>ASTM B-2247</i>	<i>500–1000 hrs depending on finish</i>
<i>QUV Resistance</i>	<i>ASTM G-53</i>	<i>Not applicable</i>
<i>Pencil Hardness</i>	<i>ASTM D-3363</i>	<i>H–2H</i>

* Results will vary depending on formulation



LOW CURE POWDER – PURE POLYESTER

Series Identification Code 20

Product description

Low Cure Powder Coatings are specially formulated and manufactured to provide substrate protection and durability for a wide range of applications with the advantage of enhanced process-ability over standard cure powders. These powders are recommended for use on heavy mass metallic substrates exposed to outdoor environment.

Popular Applications

AC compressors
Electric motors
Automotive radiators
Heavy mass castings such as industrial pumps

General Specifications

Specific Gravity: 1.6 ± 0.3 depending on product
Particle Size Distribution: <125 microns 100% passing
Curing Schedule: 150°C (object temperature) for 10 minutes
Shelf Life: 6 months minimum when stored at temperature < 25°C and RH < 60%

General Film Properties

Property	Test Method	Value
Recommended Film Thickness	ASTM D-1186	50–60 microns minimum
Gloss Range @ 60° Gloss Head	Marpol Standard	55%–95%
Impact Resistance	ASTM D-2794	80 kg-cm *
Erichsen Cupping	ASTM E-643	6 mm, min
Flexibility Bend	ASTM D-552	6mm, min
Scratch Hardness	BS 3900 Part E6	2 kgs min
Salt spray Resistance	ASTM B-117	500–1000 hrs depending on finish
Humidity Resistance	ASTM B-2247	500–1000 hrs depending on finish
QUV Resistance	ASTM G-53	300 hrs
Pencil Hardness	ASTM D-3363	H–2H

* Results will vary depending on formulation