



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