

## POWDER COATING PRODUCT COMPARISON

EPOXY POLYESTER · PURE POLYESTER · PURE EPOXY · POLYURETHANE

Property	Epoxy Polyester (Hybrid)	Pure Polyester (TGIC/HAA)	Pure Epoxy	Polyurethane (PU)
PRODUCT GRADE	High/Matt/Satin Interior Grade	Exterior Durable Grade	Industrial Heavy-Duty	Premium Performance
FINISHES AVAILABLE	Glossy, Matt, Satin	Glossy, Matt, Satin	Matt (Dead Matt)	All Finishes
SUBSTRATE (TESTED)	Mild Steel 0.8 mm	Aluminium / Mild Steel 0.8 mm	Aluminium 0.8 mm	Mild Steel 0.8 mm
PRE-TREATMENT	5-Stage Zinc Phosphate	5-Stage Zinc Phosphate	7-Stage Zinc Phosphate	5-Stage Zinc Phosphate
CURE SCHEDULE	180-200°C / 10-15 min	180-200°C / 10-15 min	200°C / 10-15 min	180-200°C / 10-15 min
FILM THICKNESS	70-80 µm	70-80 µm	70-80 µm	70-80 µm
GLOSS RANGE (60°)	8-90 GU (by finish)	9-93 GU (by finish)	5-8 GU	As per finish
PENCIL HARDNESS	H - 2H	H - 2H	H - 2H	H - 2H
ADHESION (CROSS-HATCH)	5B / GT-0	5B / GT-0	5B / GT-0	5B / GT-0
IMPACT RESISTANCE	≥ 100 kg·cm <sup>2</sup>	≥ 110 kg·cm <sup>2</sup>	≥ 120 kg·cm <sup>2</sup>	≥ 120 kg·cm
SALT SPRAY RESISTANCE	500-750 hrs	500-750 hrs	1000-1300 hrs	≥ 1200 hrs
HUMIDITY RESISTANCE	800-1000 hrs	≥ 1000 hrs	800-1000 hrs	≥ 1500 hrs
UV / EXTERIOR DURABILITY	Limited (interior)	Excellent (QUV G154)	Poor - chalks outdoors	Excellent
CHEMICAL RESISTANCE	Industrial grade	Industrial grade	Industrial grade	Industrial grade
BEST SUITED FOR	Interior furniture, appliances, general	Architectural, facades, outdoor	Heavy-duty industrial, primers	Demanding interior/exterior, high durability

**How to choose:** **Epoxy Polyester (Hybrid)** – best all-round value for interior items. **Pure Polyester** – choose when UV / outdoor weatherability matters (architectural, facades). **Pure Epoxy** – maximum chemical & corrosion resistance for interior/industrial; not for sunlight exposure. **Polyurethane** – premium durability with the highest corrosion & humidity performance.



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Comparison Sheet · Ref OI/PC/COMP-01 · 31 May 2026  
Values are typical lab results; performance varies with substrate, pre-treatment & application.