

CONTROLLED DOCUMENT

LABORATORY TEST REPORT

PREMIUM POLYURETHANE PERFORMANCE · POWDER COATING

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SAMPLE & PROCESS IDENTIFICATION

MANUFACTURER Oracle Industries	COATING TYPE Polyurethane (PU)
FINISH All Finishes (Matt / Satin / Glossy)	SUBSTRATE Mild Steel Panel (0.8 mm)
PRETREATMENT 5-Stage Zinc Phosphate	CURING SCHEDULE 180–200°C / 10–15 min (MT)
AVERAGE FILM THICKNESS 70–80 µm	TEST ENVIRONMENT 23±2°C, 50±5% RH

TEST RESULTS

PROPERTY	TEST METHOD (ASTM / ISO)	RESULT	PERFORMANCE LEVEL
Gloss (60°)	ASTM D523 / ISO 2813	As per finish category	● Matt / Satin / Glossy
Coating Thickness	ASTM D7091 / ISO 2808	70–80 µm	● Within Spec
Cross Hatch Adhesion	ASTM D3359 / ISO 2409	5B / GT-0	● Excellent Adhesion
Mandrel Bend (5 mm)	ASTM D522	Pass – No cracking	● Flexible Film
Erichsen Cupping	ISO 1520	≥ 5 mm	● High Deformability
Impact Resistance	ASTM D2794 / ISO 6272	≥ 120 kg·cm	● High Impact Strength
Scratch Resistance	ASTM D7027	≥ 2.5 kg	● Superior Hardness
Pencil Hardness	ASTM D3363	H – 2H	● Durable Finish
Salt Spray Resistance	ASTM B117 / ISO 9227	≥ 1200 hrs	● Superior Corrosion Resistance
Humidity Resistance	ASTM D2247	≥ 1500 hrs	● No blistering
Chemical Resistance	ASTM D1308	Resistant to mild acids, alkali & solvents	● Industrial Grade

Overall Evaluation: Sample **CONFORMS** to Premium Polyurethane Performance specification. No blistering observed; rust creep ≤ 2 mm at scribe per ASTM D1654. Exterior-grade weatherability with enhanced corrosion and humidity resistance. All measured properties meet or exceed declared performance levels. **Result: PASS.**



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Disclaimer: This is a laboratory test report for a lab-prepared colour panel. Shade variation might occur during production spraying; the final approved colour should be matched with production samples prepared by the applicator. Gloss varies by selected finish category (Matt / Satin / Glossy). Results pertain only to the sample tested under the stated conditions. This document is issued under Oracle Industries' internal quality-control protocol (ISO / NABL-inspired methodology) and shall not be reproduced except in full.