

CONTROLLED DOCUMENT

LABORATORY TEST REPORT

EXTERIOR DURABLE SATIN · POWDER COATING

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SAMPLE & PROCESS IDENTIFICATION

MANUFACTURER Oracle Industries	COATING TYPE Pure Polyester
FINISH Satin	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	60–70 GU	● Premium Sheen / Satin Finish
Coating Thickness	ASTM D7091 / ISO 2808	75–80 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	≥ 110 kg·cm ²	● 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	500–750 hrs	● No rust creep > 2 mm
Humidity Resistance	ASTM D2247	≥ 1000 hrs	● No blistering
Chemical Resistance	ASTM D1308	Resistant to mild acids, alkali & solvents	● Industrial Grade
Outdoor Durability (Polyester)	QUV ASTM G154	700–1000 hrs	● UV Stable
Storage Stability (25°C)	Internal Method	12 Months (Cool & Dry)	● Extended Shelf Life

Overall Evaluation: Sample **CONFORMS** to Exterior Durable Satin specification. No blistering observed; rust creep ≤ 2 mm at scribe per ASTM D1654. Pure polyester chemistry provides UV-stable, exterior-grade weatherability (QUV ASTM G154). All measured properties meet or exceed declared performance levels. **Result: PASS.**



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**Authorized Signatory**
Quality Assurance Manager

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. 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.