

CONTROLLED DOCUMENT

LABORATORY TEST REPORT

INDUSTRIAL HEAVY DUTY EPOXY · POWDER COATING

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SAMPLE & PROCESS IDENTIFICATION

MANUFACTURER Oracle Industries	COATING TYPE Pure Epoxy
FINISH Matt (Dead Matt)	SUBSTRATE Aluminium (0.8 mm)
PRETREATMENT 7-Stage Zinc Phosphate	CURING SCHEDULE 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	5–8 GU	● Premium Dead Matt 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	≥ 120 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	1000–1300 hrs	● No rust creep > 2 mm
Humidity Resistance	ASTM D2247	800–1000 hrs	● No blistering
Chemical Resistance	ASTM D1308	Resistant to mild acids, alkali & solvents	● Industrial Grade
Storage Stability (25°C)	Internal Method	12 Months (Cool & Dry)	● Extended Shelf Life

Overall Evaluation: Sample **CONFORMS** to Industrial Heavy Duty Epoxy specification. No blistering observed; rust creep ≤ 2 mm at scribe per ASTM D1654. Note: pure epoxy is recommended for interior / industrial applications due to limited UV stability. 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. Pure epoxy coatings may chalk on prolonged exterior exposure and are intended for interior / industrial use. 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.