



## DRIVING SURFACE PERFECTION™

# RAPTOR

RAPTOR Test Report: Reference: - AB12161 – Page 1  
Updated May 2017  
Authorized by A Blackburn

Brief: - ASTM or equivalent testing externally verified for U-POL Raptor to support technical sales.

Method: Materials prepared as set out in relevant test method. Where a primer is used this we have applied 2-coats of U-POL epoxy primer and allowed to cure overnight. Unless otherwise stated the substrate is cold rolled steel prepared by abrading with 80 grit abrasive, cleaned and degreased before subsequent coating applied. RAPTOR was applied using a Shutz gun at 50 psi. Application as one medium and one light coat with a 60-minute flash off time observed between coats resulting in a dry film build ≈330μ.

RAPTOR was allowed to cure at room temperature for a minimum of 14-days before testing.

Property	Test Method	U-POL Raptor	U-POL Raptor over U-POL Epoxy primer
Salt Spray Resistance	ASTM B 117-16	Scribe creep (maximum width both sides) 250hrs:- 1.3mm 500hrs:- 2.6mm 750hrs:- 3.0mm	Scribe creep (maximum width both sides) 250hrs:- 1.05mm 500hrs:- 1.50mm 750hrs:- 2.32mm
Water Immersion	ASTM D870-15 (38°C for 30-days)	Slight to moderate color change (fading) no blistering	Slight to moderate color change (fading) no blistering
Taber Abrasion Resistance	ASTM D4060-14 (CS-10 1000g wheel)	8590 cycles until wear through to substrate	
Pencil Hardness	ASTM D3363-05(2011)e2	Gouge hardness of 6H	
Adhesion	ASTM D3359-09e2 Method A	5A (No peeling or removal)	5A (No peeling or removal)
Chip Resistance	ASTM D3170/D3170M-14 (Physical Count)	23°C:- 8 C 30°C:- 8 B 0°C:- 8 C	23°C:- 8 B 30°C:- 8 B 0°C:- 8 B
Impact Resistance	ASTM D2794-93(2010)	23°C:- 93 inch pounds (10.5 Joules) 30°C:- 70 inch pounds (7.9 Joules) 0°C:- 64 inch pounds (7.2 Joules)	23°C:- 68 inch pounds (7.7 Joules) 30°C:- 104 inch pounds (11.75 Joules) 0°C:- 46 inch pounds (5.2 Joules)

**QUALITY SERVICE VALUE INNOVATION TRUST**

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Cont.

Property	Test Method	U-POL Raptor	
Chemical Resistance	ASTM D1308 Method 3.1.2 Spot Test, Open	60-minutes Pass = No visual change in color or gloss and no blistering. Xylene:- Pass 10% NaOH:- Pass Hydraulic Oil:- Pass Gasoline:- Pass Diesel:- Pass Water:- Pass 50% Ethylene Glycol:- Pass Motor Oil:- Pass	16-hours Pass = No visual change in color or gloss and no blistering. Adhesion (ASTM D3359 Method A) Xylene:- Pass. Adhesion 2A 10% NaOH:- Pass. Adhesion 5A Hydraulic Oil:- Pass. Adhesion 5A Gasoline :- Pass. Adhesion 5A Diesel:- Pass. Adhesion 5A Water:- Pass. Adhesion 5A 50% Ethylene Glycol:- Pass. Adhesion 5A Motor Oil:- Pass. Adhesion 5A
Dielectric Breakdown	ASTM D 149	Breakdown voltage:-1.5kV Breakdown strength:-4.8 kV/mm	
Flammability of coating	FMVSS 302, ISO 3795 and BS AU 169a	0.0 mm/min SE (requirement in FMVSS 302 ≤100 mm/min)	
Anti Slip	BS 7976-2  ASTM E303-93	Dry:- Pendulum test value 54, slip risk <b>Low</b> Wet:- Pendulum test value 23, slip risk <b>High</b>  <b>With Raptor Traction:-</b> Dry:- Pendulum test value 58, slip risk <b>Low</b> Wet:- Pendulum test value 45, slip risk <b>Low</b>  TRL #55 Slider- Raptor : 27 TRL #55 Slider- Raptor Traction : 54	

ASTM reports available on request.

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