



DRIVING SURFACE PERFECTION™

Test Report: Reference: - AB0818/3 – Page 1

Prepared August 2018
Authorized by A Blackburn

Brief: - Determination of the effect of household chemicals on RAPTOR resulting in any objectionable alteration of the surface such as discoloration, change in gloss, blistering, softening, swelling, loss of adhesion or special phenomena in accordance with ASTM D 1308-02.

Method:

Substrates:

80 grit abraded and degreased cold rolled steel 0.032" thick with 2 coats of Raptor Epoxy Primer applied as per product specification.

Application: coating was applied using a Shutz gun at 50 psi. Application as two medium coats with a 30-minute flash off time observed between coats. DFT 8-Mil for EGC101.

Test methods used as referred to in ASTM D1308-02;

- 3.1.1 Spot Test, Covered- The reagent is placed on the test surface and immediately covered.
- 3.1.2 Spot Test, Open-The test surface is subjected directly to the effect of a substance.
- 3.1.3 Immersion Test- A suitably prepared panel is immersed in the test reagent.

Intervals of exposure for each reagent were 15-minutes, 1-hour and 16-hours. Ambient conditions 20°C, Relative humidity 50%.

Reagents:

Hydraulic Oil
Antifreeze
Hydrogen Peroxide 30%
Skydrol
Petrol
Alcohol
1M HCl
Urine
Xylene
Water (distilled)



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Cont.:-

Samples were stored at room temperature and the tests were carried out at 7-days, 14-days and 1-month after application. After each exposure cycle the reagent was wiped off and inspected. Then the sample is cleaned under running warm water, scrubbed with a nylon brush, dried with a paper towel and then inspected.

Blistering was assessed according to ASTM D 714

RESULTS:

Table 1

					Test Time:- 7-Days EGC101 in BLACK				
		3.1.1 Spot Test Covered			3.1.2 Spot Test Open			3.1.3 Immersion Test	
Reagent	15-minutes	1-Hour	16-Hours	15-minutes	1-Hour	16-Hours	15-minutes	1-Hour	16-Hours
Hydraulic oil	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Antifreeze	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Hydrogen Peroxide 30%	No Effect	No Effect	Blistered	No Effect	No Effect	Blistered	No Effect	No Effect	Blistered
Skydrol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Petrol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Alcohol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
1M HCl	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	Blistered
Urine	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Xylene	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Distilled Water	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect



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Table 2

					Test Time:- 7-Days EGC101 in White				
		3.1.1 Spot Test Covered			3.1.2 Spot Test Open			3.1.3 Immersion Test	
Reagent	15-minutes	1-Hour	16-Hours	15-minutes	1-Hour	16-Hours	15-minutes	1-Hour	16-Hours
Hydraulic oil	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Antifreeze	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Hydrogen Peroxide 30%	No Effect	No Effect	Blistered	No Effect	No Effect	Blistered	No Effect	No Effect	Blistered
Skydrol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Petrol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Alcohol	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
1M HCl	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	Blistered
Urine	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Xylene	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect
Distilled Water	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect	No Effect