



TREADMASTER GLOW-TEC

General Properties:	Treadmaster Glow-Tec is a UV resistant, anti-slip rubber floor covering with unique glow in the dark capabilities. It has been independently tested to DIN 67510-1:2009 which show the product can be observed in total darkness for up to 100 hours after fully charging with either natural or artificial light sources. Treadmaster Glow-Tec is supplied with either a checker or random speckle surface and can be bonded to most substrates used in the Marine Industry, including GFRP, aluminium and marine plywood.		
	Property	Result	Test Method (where appropriate)
	Hardness	90-92° IRHD	ISO 48
	Density	1.63 – 1.67 g/cm ³	ISO 48
	Slip Properties	Dry – 55, Wet - 38	BS 7976-2:2002 Pendulum
	Tensile Strength	6.0 MPa	ISO 37
	Elongation	20%	ISO 37
	Abrasion Resistance	1.13g/0.41mm	3000 cycles, 500g Taber abrader H22 wheels
	Chemical Resistance		
	2-Stroke Petrol	52.2% vol/-11° IRHD	Full immersion, 24 hours @ RT.
	Petrol	57.3% vol/-10° IRHD	
	Diesel	14.9% vol/-10° IRHD	
	BS 148 oil	7.8% vol/-6° IRHD	
	Dimensional Stability	0.02/ -0.04%	Tested @ 50°C for 6 hours
	Resistance to weathering/UV	No significant change after 4 weeks	QUV accelerated aging.
	Bond Strength		
	Marine Plywood	0.95 N/mm	180° peel test
	GFRP	0.92 N/mm	
	Aluminium	1.68 N/mm	
	Luminous Testing		
	PSPA (Photoluminescent)	Class D (highest rating available)	Min requirement of 260.0mcd/m ² at 10



	Safety Products Association)		minutes and 35.0mcd/m ² at 60 minutes.
	Luminance (mcd/m ²) @ 10 min	Checkered - 495 mcd/m ² Speckle - 757 mcd/m ²	DIN 67510-1:2009
	Luminance (mcd/m ²) @ 60 min	Checkered - 70.9 mcd/m ² Speckle - 103 mcd/m ²	
	Decay Time (min)	Checkered - 4330 min Speckle - 5570 min	
Fitting:	Standard Glow-Tec pads are supplied with a PSA (pressure sensitive adhesive) backing. The surface being bonded to requires suitable preparation (please refer to Treadmaster Marine Website). Once the surface is prepared then the backing layer is simply removed from the pad and bonded in place using hand pressure.		
Availability:	Glow-Tec checker pads and Glow Tec speckle pads are supplied individually (275mm X 135mm X 3mm) or (412mm X 203mm X 3mm), with a water resistant PSA backing. These products are also available in bespoke sizes, with or without the PSA backing.		
Cleaning and Maintenance:	Treadmaster Glow Tec can be easily cleaned using a non-aggressive jet washer or simply by gentle scrubbing with Treadmaster cleaner.		

Independent Testing Results

Measured luminance, tables and diagrams

Table 1. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Glow Tec Checker).

Time (min)	Luminance (mcd/m ²)	Time (min)	Luminance (mcd/m ²)
5	960	65	64,8
10	495	70	59,2
15	327	75	54,7
20	242	80	50,7
25	189	85	47,0
30	156	90	44,0
35	132	95	41,3
40	113	100	38,8
45	99,2	105	36,6
50	87,7	110	34,5
55	78,8	115	32,8
60	70,9	120	31,0

Diagram 1. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Glow Tec Checker).

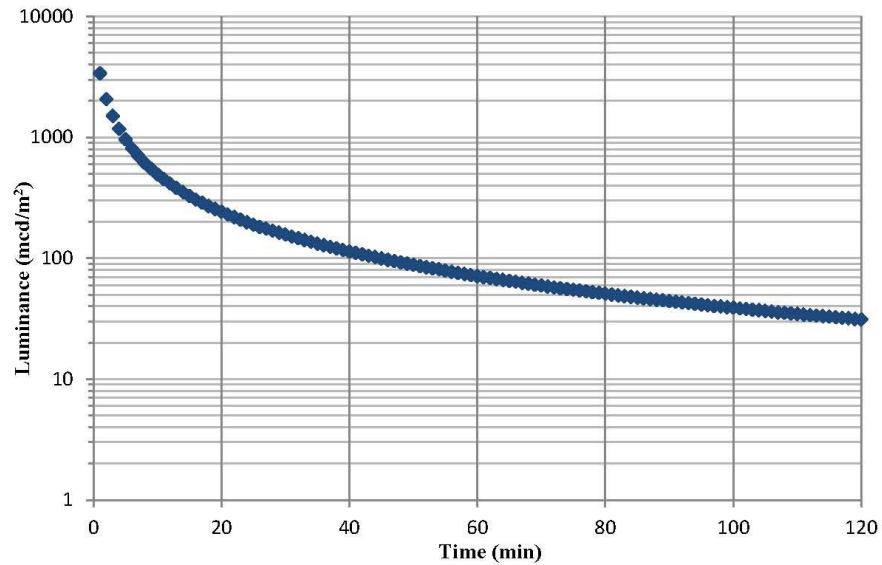




Table 2. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Neo Glow).

Time (min)	Luminance (mcd/m ²)	Time (min)	Luminance (mcd/m ²)
5	1380	65	104
10	735	70	95,4
15	496	75	87,9
20	371	80	81,7
25	293	85	76,1
30	241	90	71,2
35	205	95	66,7
40	178	100	62,6
45	157	105	59,1
50	139	110	56,1
55	125	115	53,4
60	114	120	50,7

Diagram 2. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Neo Glow).

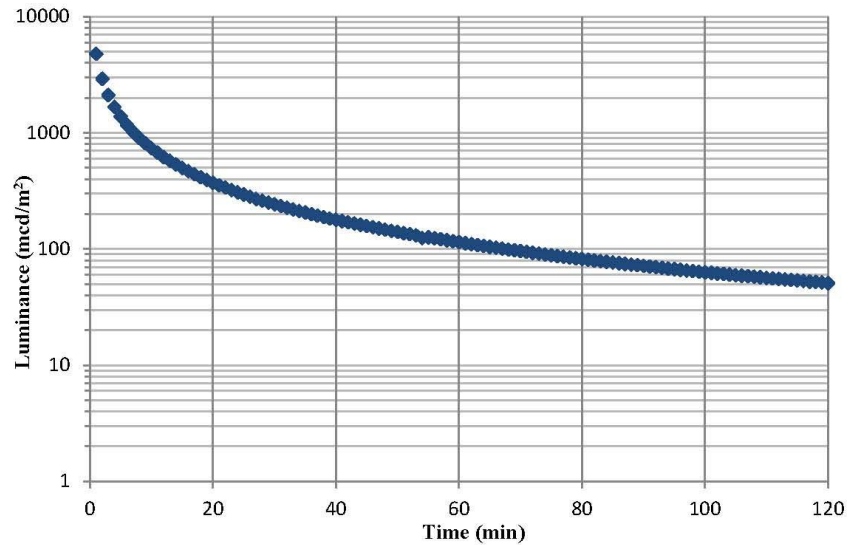
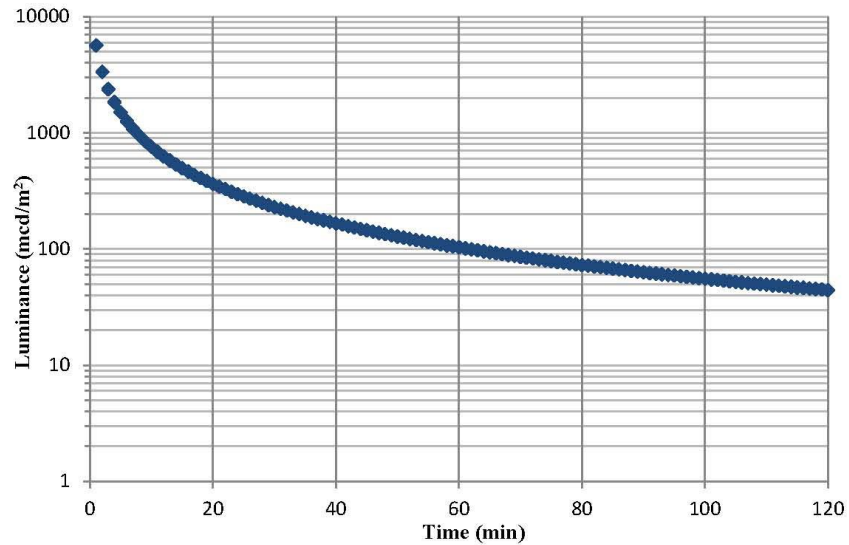




Table 3. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Glow Tec Speckle).

Time (min)	Luminance (mcd/m ²)	Time (min)	Luminance (mcd/m ²)
5	1497	65	93,2
10	757	70	85,2
15	495	75	78,4
20	362	80	72,4
25	282	85	67,3
30	229	90	62,8
35	192	95	58,8
40	166	100	55,1
45	144	105	51,8
50	128	110	49,1
55	114	115	46,4
60	103	120	44,0

Diagram 3. Luminance during attenuation (after 5 min exposure at 1000 lux, sample Treadmaster Glow Tec Speckle).



Compiled: 23/06/2014 SMW