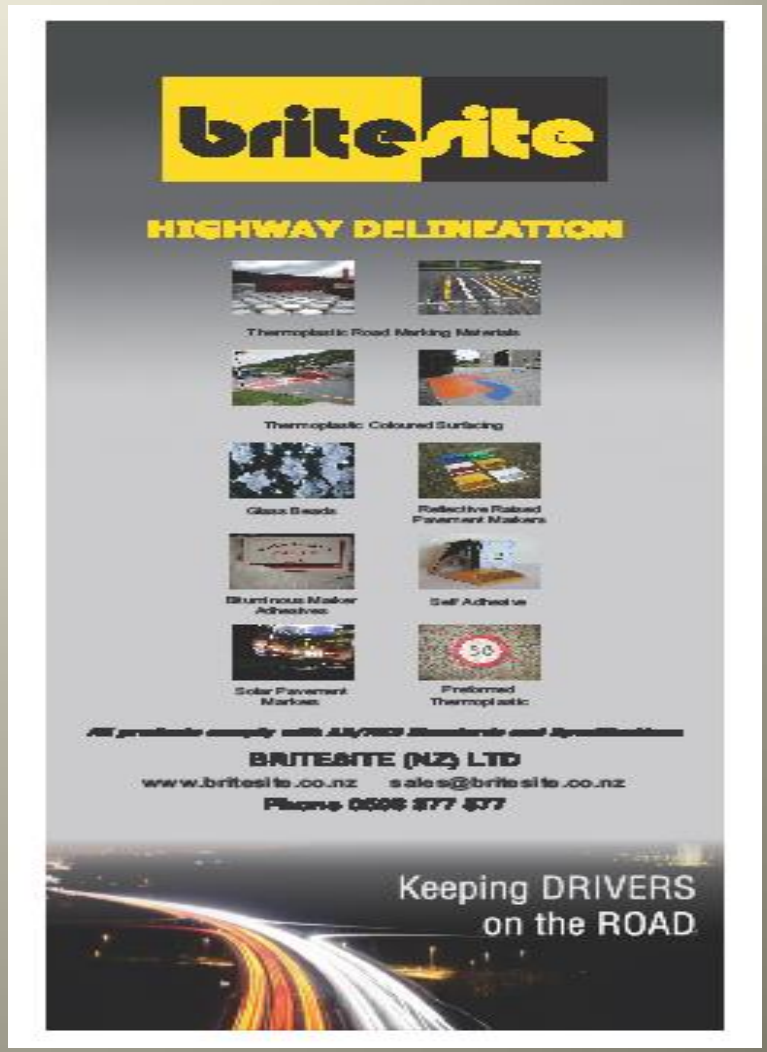
BRITESITE (NZ) LTD

QUALITY verification
ISO9001
Certified

BRITESITE (NZ) LTD

- Glass Beads
- Thermoplastic
- Reflective Pavement Markers
- Marker Adhesive
- LED/Solar Markers
- Application Equipment



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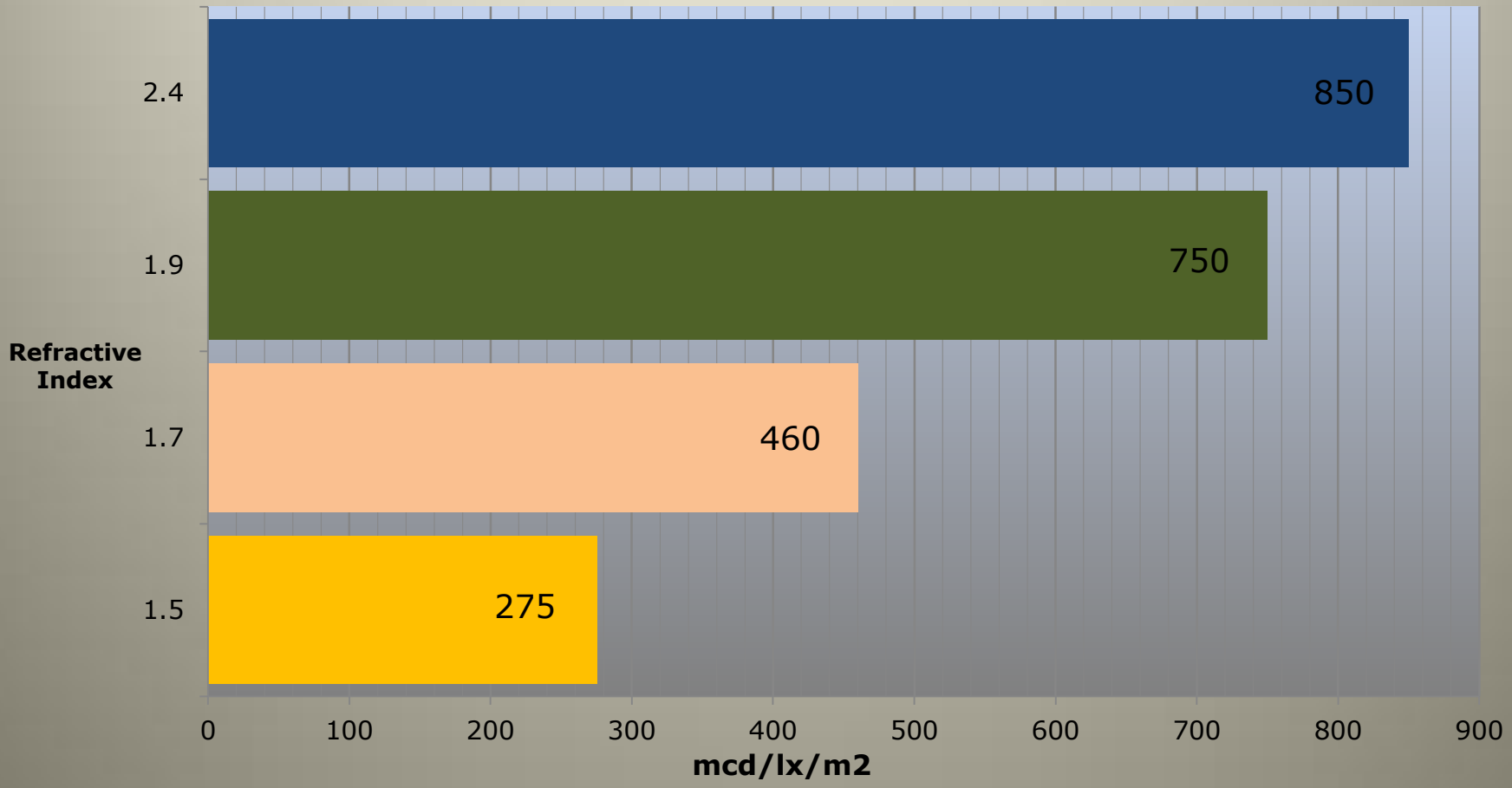
Glass Beads - High Index



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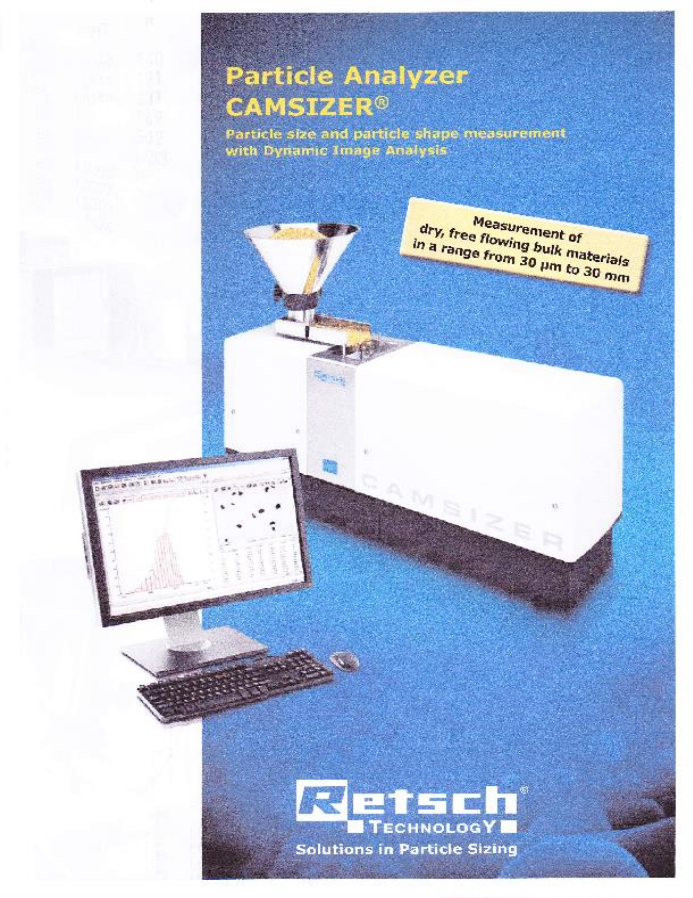
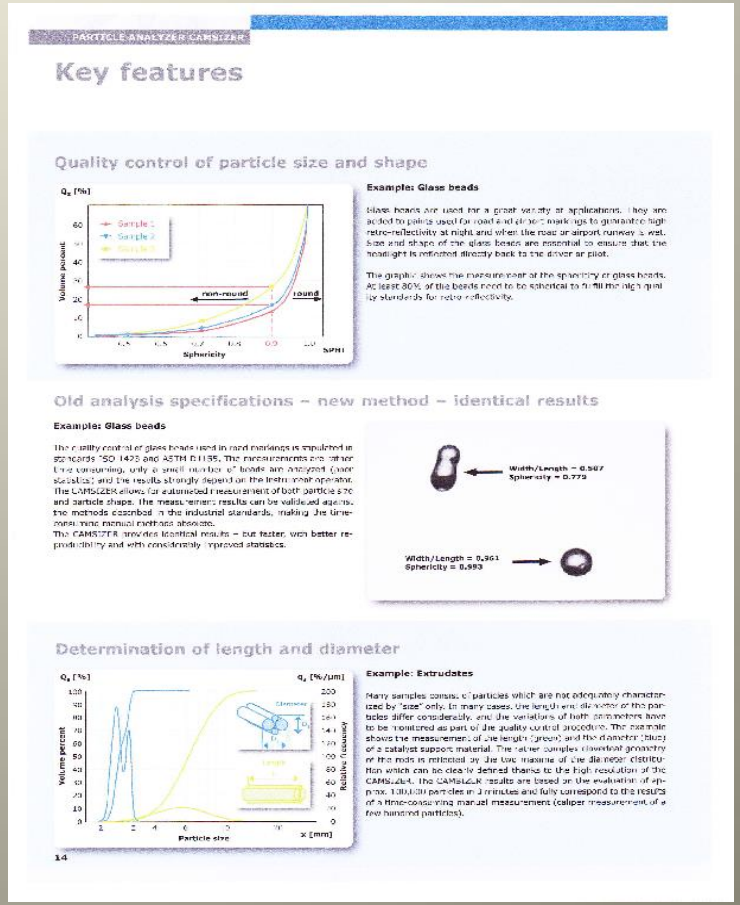
Glass Beads – Camsizer





BRITESITE (NZ) LTD

Thermoplastic

- **Dot Matrix Trial**
- **ATP Impact Resistance**
- **Glow in Dark Preform**

BRITESITE (NZ) LTD

News Update – June 2013

britesite
KEEPING DRIVERS ON THE ROAD

News UPDATE
June 2013

Britesite Thermoplastic .....

NZTA are responsible for ensuring road marking materials meet specification and this entails applying materials transversely on selected trial sites. Leading up to a new round of testing in November 2013, trial sites were selected following a pre-trial test, which was conducted in June 2010 when Britesite applied Thermoplastic (Dot Matrix) at the pre-trial test sites. This May 2013, Britesite engaged Opus Research to measure the markings at Taupo Swamp on SH1 North of Wellington where approximately 8,200 vehicles per day cross the transverse lines.

Left: The photos show the Thermoplastic Dot Matrix markings in the wheel path, 8 x 10^6 vehicle passes.

TEST RESULTS: Britesite Thermoplastic EXSCRE35 compared to specifications

Performance Parameter	Britesite Thermoplastic EXSCRE35		Specifications				
	Line T10 White	Line T11 Yellow	M20 2003 White	M20 2003 Yellow	AS4049.2 2005	Proposed M7 Long life White	Proposed M7 Long life Yellow
Retroreflectivity mcd	118	81	100	80	100	150	150
Skid Resistance BPN	58	64	50-65		45	50-65	
Test Duration Vehicle Passes x10^6	8	8	3		3	5	

The results off the pre-trial test at 8 million vps are very encouraging and show without question, we exceed the requirements of the current NZTA M20 Long Life Road Marking Material Specification and Australia's Thermoplastic Road Marking Material Specification (AS4049.2) **after more than twice the specified exposure**, and whilst our 'retro's' are lower than the draft M7 targets, the 60% greater trafficking exposure of our test lines indicates we are heading in the right direction.

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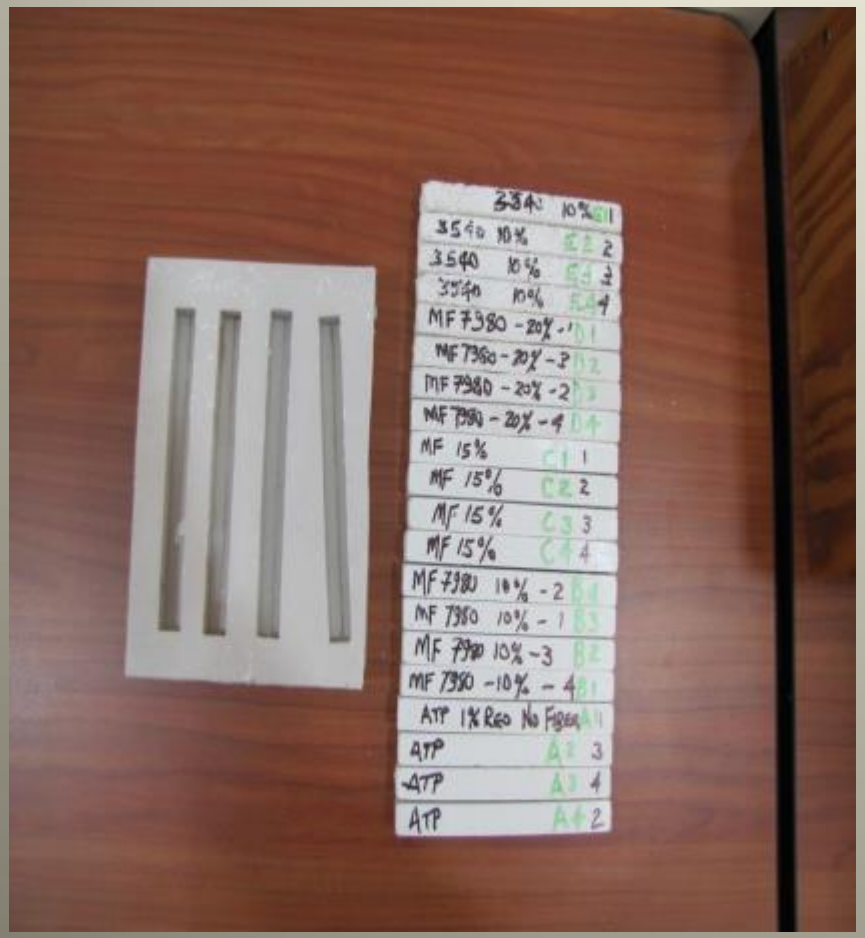
ATP Impact Resistance



ATP IMPACT RESISTANCE

CHARPY IMPACT TESTING

Britesite ATP Production Year	Impact Resistance J/M
2010	11.75
2011	12.92
2013	14.23 (+ 20%)
Trials	20.37 (+ 73%)
Difficult Application	45.10 (+ 384%)

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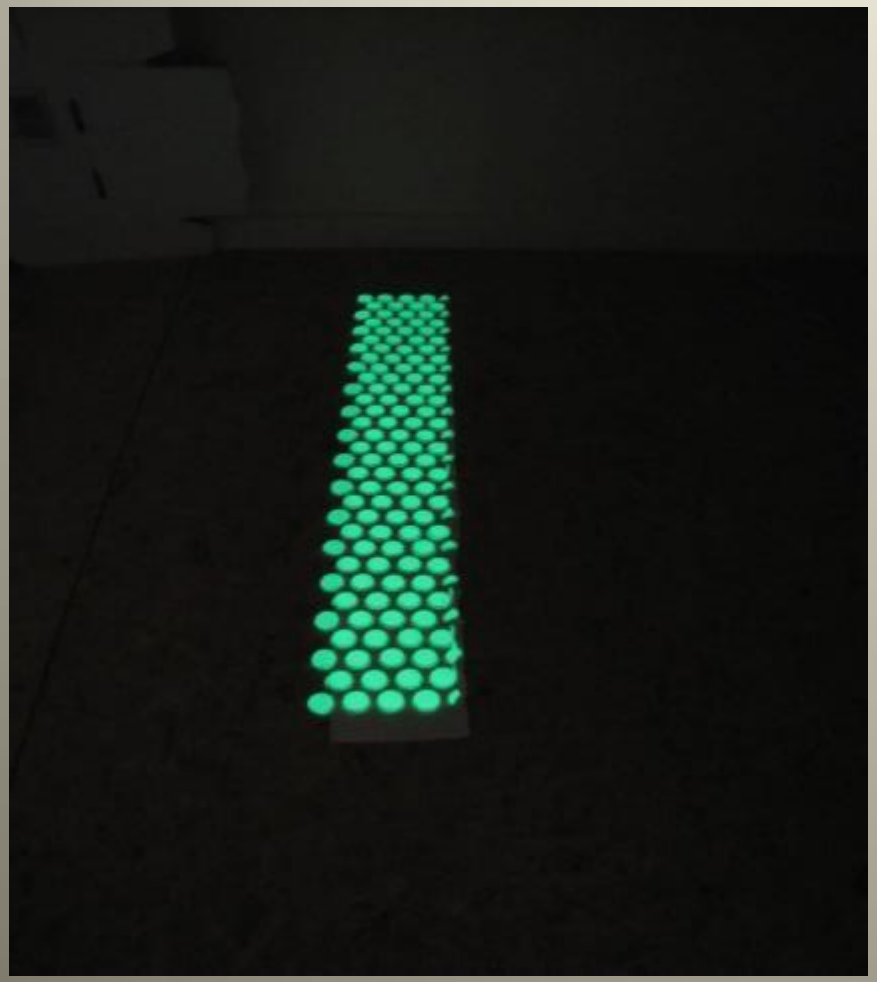
Glow in Dark Preform



LUMINESCENT PREFORM

TYPICAL AFTERGLOW

(AFTER LIGHTS OUT)

MINUTES	MCD/M²
2	1550
5	700
10	360
60	50
120	20

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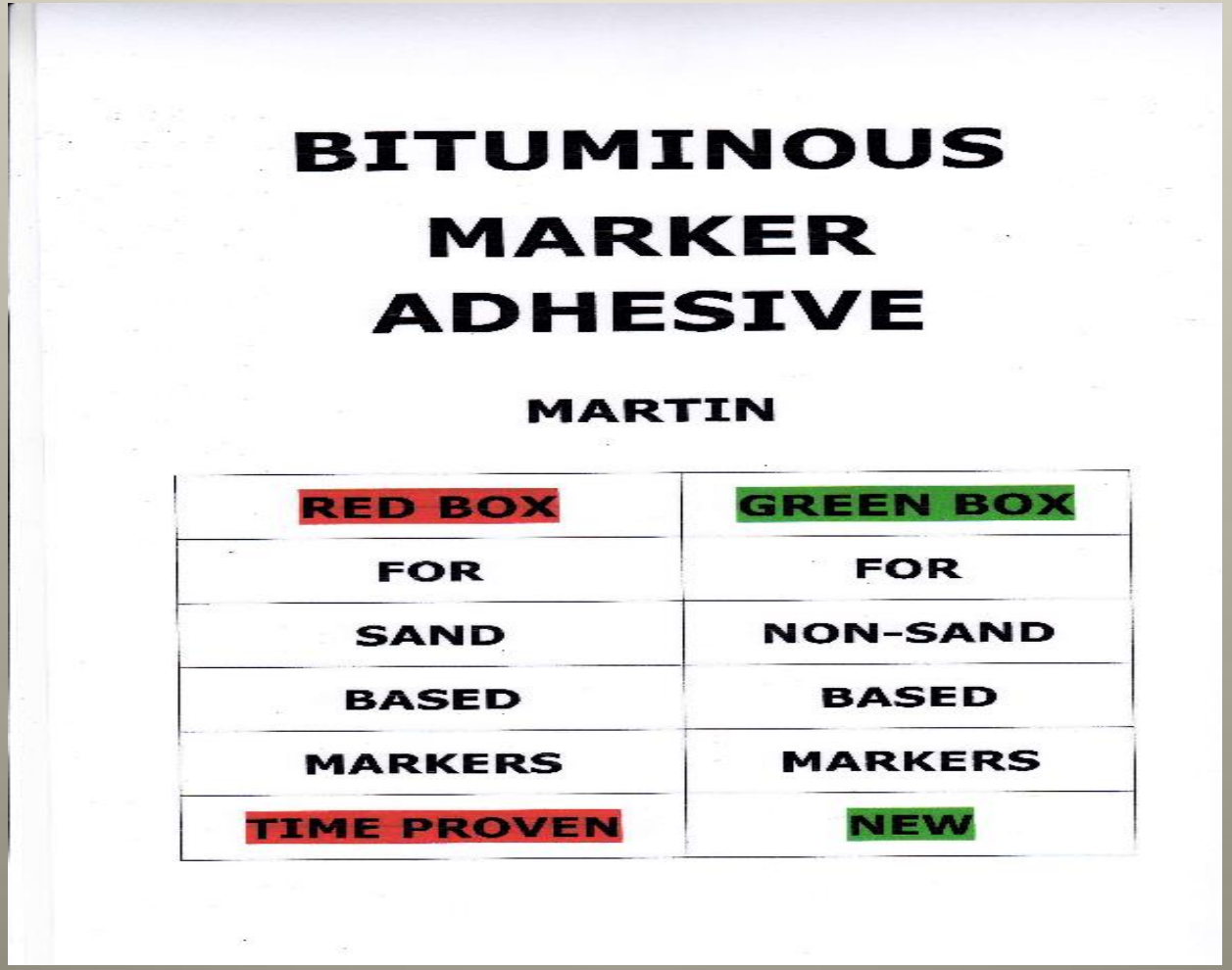
Martin Bituminous Marker Adhesive



BRITESITE (NZ) LTD

- Application Equipment