

CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Applicator: Type LA Borum SPT 350-2
Thermoplastic Applicator
Registration # EUK 633

Owner: Higgins Contractors Ltd
P O Box 5164
Terrace End
Palmerston North



Test Description: The long life pavement marking applicator described by this certificate has been tested under the conditions described and found to comply with the relevant requirements of NZTA Specification NZTA T12:2013

Test Conditions: The scope of the NZTA T12: 2013 recertification was as follows;

- Application of Agglomerate Cold Applied Plastic to Schedule One, Agglomerate Cold Applied Plastic, in accordance with Higgins Contractors Technical Specification, NZTA P30:2008 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule Two, Cold Applied Plastic Audio Tactile, in accordance with Higgins Contractors Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.

Test Identification:

- The Registration plate of the tested unit is EUK 633 and the Chassis number is 140057
- The tests were carried out at the depot of Higgins Group Holdings Ltd on the 13th of October 2017.
- The materials used for both tests were; Britesite, Premium Thermoplastic Roadmarking Compound and Potters drop-on glass beads (AS/NZS 2009)

Equipment Tested:	Extruder Head	Borum	SPT350/140057
	Extruder Drive	Borum	SPT350/140057
	Screw Compressor 1	TMC	04080115U
	Screw Compressor 2	TMC	07080151U
	Bead Applicators (2)	Borum	SPT350/140057
	Intermittent Line	BM Uni-line EUR1	SPT350/140057
	Devise		
	Speedometer	BM Uni-line EUR1	SPT350/140057

Applicator Speeds:	100mm	150mm	200mm
Schedule One			1.9 km/h
Schedule Two A		2.0 km/h	
Schedule Two B		2.1 km/h	

Special Notes: 1. The applicator is not capable of applying turn arrows.

SCHEDULE ONE

Agglomerate Thermo Plastic, in accordance with Higgins Contractors Technical Specification, NZTA P30:2008 and NZTA T12:2013.

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in;

NZTA P30:2009 Specification for High Performance Roadmarkings and

NZTA T12:2013 Specification for Long-Life Pavement Marking Material Applicator Testing

The values specified in NZTA P30:2009 and NZTA T12:2013 used for determination of compliance were as follows:

Gap length between segments

Where gap is 3.0m or more: $\pm 300\text{mm}$

Where gap is less than 3.0m but greater than 1.0m; $\pm 150\text{mm}$

Where gap is less than 1.0m: $\pm 50\text{mm}$

Length of segment.

Where segment is longer than 5.0m; $\pm 150\text{mm}$

Where segment is shorter than 5.0m but longer than 1.0m; $\pm 75\text{mm}$

Where segment is shorter than 1.0m; $\pm 50\text{mm}$



Line width.

All line widths; $+ 10\%$, $- 5\%$ of the specified value. (200 mm)

Structured (Agglomerate) Thermo Plastic.

1. Minimum material application rate of 2.4kg/m^2
2. A coverage between 55% and 75%, and
3. Line appearing continuous when sitting in a passenger car.

Retroreflectivity.

AS/NZS 2009 Class B (drop-on) glass beads applied uniformly at a minimum rate of 330gm/m^2 .

Dry retroreflectivity; a minimum of $150\text{mcd/m}^2/\text{lux}$.

Wet retroreflectivity; a minimum of $80\text{mcd/m}^2/\text{lux}$

Day Time Visibility.

Minimum of $100\text{mcd/m}^2/\text{lux}$

Colour.

White; a discolouration of not more than 4/5 from colour Y35 of AS2007S

Skid Resistance.

50 BPN or greater for roadmarkings with a dry film thickness of 0.9 mm or greater

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SCHEDULE TWO**

Audio Tactile Profile Markings with Thermoplastic in accordance with NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in;

NZTA M24:2006 Specification for Audio Tactile Profiled Roadmarkings,
NZTA P30:2009 Specification for High Performance Roadmarkings and
NZTA T12:2013 Specification for Long-Life Pavement Marking Material Applicator Testing

The values specified in NZTA M24:2006, NZTA P30:2009 and NZTA T12:2013 used for determination of compliance were as follows:

Gap length between segments

Where gap is 3.0m or more: $\pm 300\text{mm}$
Where gap is less than 3.0m but greater than 1.0m; $\pm 150\text{mm}$
Where gap is less than 1.0m: $\pm 50\text{mm}$

Length of segment.

Where segment is longer than 5.0m; $\pm 150\text{mm}$
Where segment is shorter than 5.0m but longer than 1.0m; $\pm 75\text{mm}$
Where segment is shorter than 1.0m; $\pm 50\text{mm}$

Raised blocks.

Block height; + 15 %, - 5 % of the specified value. (9 mm)
Block width; + 30 %, - 20 % of the specified value (150mm)
Block length; + 30 %, - 20 % of the specified value (50mm & 50mm)
Block pitch; + 5 %, - 5 % of the specified value. (250mm & 500mm)

Retroreflectivity.

AS/NZS 2009 Class B (drop-on) glass beads applied uniformly at a minimum rate of 275gm/m^2 .
Dry retro reflectivity; a minimum of $150\text{mcd/m}^2/\text{lux}$.
Wet retro reflectivity; a minimum of $80\text{mcd/m}^2/\text{lux}$

Day Time Visibility.

Minimum Qd of $100\text{mcd/m}^2/\text{lux}$



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CERTIFICATE OF COMPLIANCE NZTA T 12:2013

Registration Details:

[NZRF Stamp & Unique Number]

Initial Certificate Testing Officer:

Ross Ridings
Quality Surveillance Ltd

T/12 Testing Officer:

Bruce Belton
Fulton Hogan Ltd T/A Coastal Markers

Signed:

Bj Belton

Date of Expiry:

13th October 2018

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