

CERTIFICATE OF COMPLIANCE NZTA T 12:2013

**Applicator:** 2001 Coastline Markers,  
Operator Mounted, Type LB  
Cold Applied Plastic  
Applicator.  
Registration CTS905

**Owner:** Fulton Hogan Ltd, T/A  
Coastline Markers  
P O Box 302-528  
North Harbour 0751



**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 Plain Flat Cold Applied Plastic to Schedule A, Flat Spray Cold Applied Plastic in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule B, Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.
- Application of Agglomerate Cold Applied Plastic to Schedule C, Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule D, Cold Applied Plastic Audio Tactile in combination with Agglomerate Cold Applied Plastic, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.

**Test Identification:**

- The Chassis number of the tested unit is 47624
- Registration number of the applicator is CTS905
- The tests were carried out at Coastline Markers depot in Albany on the 1<sup>st</sup> of August 2018.
- The materials used for the tests were: Damar CAP Parts A & B for Schedule A, Damar Bascoplast DR 210 for Schedule B, Damar Bascoplast DR 211 for Schedule C and D. Potters AC-07 adherence

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promoting coated drop-on glass beads was used for Schedule B, C & D,  
Potters intermix glass beads was used for Schedule A.

**Equipment Tested:**

CAP Spray Gun	Graco Fusion	905
CAP Pump	Graco Viscount 1:1	905A
CAP Dosing Unit	Kadcam	905
Structure Spindle	Kadcam	905
Bead Applicator	Handock	905
Compressor	ABAC	905
Speedometer	Autoline 2000	905

**Applicator Speeds:**

	100mm	150mm	200mm
Schedule (a)		2.2 km/h	
Schedule (b)		2.6 km/h	
Schedule (c)		1.2 km/h	
Schedule (d)		1.4 km/h	

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**SCHEDULE (a)**

**Flat Spray Cold Applied Plastic in accordance with Coastline Markers 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.**

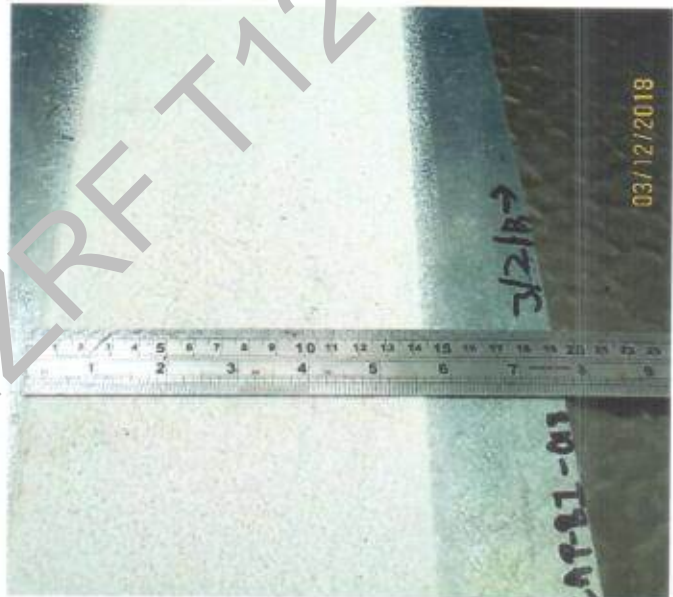
- Where segment is longer than 5.0m;  $\pm 150\text{mm}$
- Where segment is shorter than 5.0m but longer than 1.0m;  $\pm 75\text{mm}$
- Where segment is shorter than 1.0m;  $\pm 50\text{mm}$

**Line width.**

All line widths; + 10 %, - 5 % of the specified value. (150 mm)

**Flat Spray Cold Applied Plastic.**

Dry film thickness (DFT)  $\geq 450\mu\text{m} \pm 75\mu\text{m}$ .



**Retroreflectivity.**

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

**Day Time Visibility.**

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

**Colour.**

White; a discolouration of not more than 4/5 from colour Y35 of AS2007S  
 Yellow; a discolouration of not more than 4/5 from colour Y13 – Y14 of AS2007S

**Skid Resistance.**

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



**SCHEDULE (b)**

**Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, 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, (alternative dimensional tolerances)  
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, 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. (8 mm)  
Block width; + 30 %, - 20 % of the specified value (150mm)  
Block length; + 30 %, - 20 % of the specified value (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 300gm/m<sup>2</sup>.  
Dry retroreflectivity; a minimum of 150 mcd/m<sup>2</sup>/lux.  
Wet retroreflectivity; a minimum of 80 mcd/m<sup>2</sup>/lux

**Day Time Visibility.**

Minimum Qd of 100 mcd/m<sup>2</sup>/lux

**Colour.**

White; a discolouration of not more than 4/5 from colour Y35 of AS2007S  
Yellow; a discolouration of not more than 4/5 from colour Y13 – Y14 of AS2007S

**Skid Resistance.**

N/A

SCHEDULE (c)

**Agglomerate Cold Applied Plastic, in accordance with Coastline Markers 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. (150 mm)



**Structured (Agglomerate) Cold Applied Plastic.**

1. Minimum material application rate of  $2.8\text{kg/m}^2$
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  $330\text{gm/m}^2$ .  
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  $Q_d$  of  $100\text{mcd/m}^2/\text{lux}$

**Colour.**

White; a discolouration of not more than 4/5 from colour Y35 of AS2007S  
Yellow; a discolouration of not more than 4/5 from colour Y13 – Y14 of AS2007S

**Skid Resistance.**

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



**SCHEDULE (d)**

**Cold Applied Plastic Audio Tactile in combination with Agglomerate Cold Applied Plastic, in accordance with MOTSAM Part II, Coastline Markers Technical Specification, 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; MOTSAM Part II, 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 MOTSAM Part II, NZTA P30:2009, 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. (8 mm)
- Block width; + 30 %, - 20 % of the specified value (150mm)
- Block length; + 30 %, - 20 % of the specified value (50mm)
- Block pitch; + 5 %, - 5 % of the specified value. (250mm & 500mm)

**Structured (Agglomerate) Cold Applied Plastic.**

1. Minimum material application rate of 2.8kg/m<sup>2</sup>
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 300gm/m<sup>2</sup>.  
 Dry retro reflectivity; a minimum of 150 mcd/m<sup>2</sup>/lux.  
 Wet retro reflectivity; a minimum of 80 mcd/m<sup>2</sup>/lux

**Skid Resistance.**

N/A

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Registration Details:

[NZRF Stamp & Unique Number]



Initial Certificate Testing Officer:

Ross Ridings  
Quality Surveillance Ltd

4827

T/12 Testing Officer:

Bruce Belton  
Mark Roads Ltd

Signed:

*BjBelton*

Date of Expiry:

1<sup>st</sup> December 2019

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