

## CERTIFICATE OF COMPLIANCE NZTA T 12:2013

**Applicator:** 2011 Kadcama Cub, Pedestrian  
Controlled, Type LB Cold  
Applied Plastic Applicator.  
Applicator # 0982502111

**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 Agglomerate Cold Applied Plastic to Schedule One, 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 Two, Cold Applied Plastic Audio Tactile, in accordance with Coastline Markers Technical Specification, NZTA M24:2006, NZTA P30:2008 and NZTA T12:2013.
- Application of Audio Tactile Markings to Schedule Three, 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.
- Application of Plain Flat Cold Applied Plastic to Schedule Four, Flat Spray Cold Applied Plastic in accordance with Coastline Markers Technical Specification, NZTA P30:2008 and NZTA T12:2013

**Test Identification:**

- The Chassis number of the tested unit is 0982502111
- The tests were carried out at Mitre 10 Mega carpark in Albany, Auckland on 15<sup>th</sup> and 17<sup>th</sup> August 2023.
- The materials used for the tests were: Damar CAP Structure/ ATP for Schedule One, Two and Three, Damar Spray Plastic Parts A & B for Schedule Four. Potters AC-07 adherence promoting coated drop-on type B glass beads were used for Schedule one, two & three, Potters adherence promoting coated intermix type C glass beads were used for Schedule Four.

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<b>Equipment Tested:</b>	CAP Spray Gun	Homebuilt Handok	2111
		Two Component	
	CAP Pump	Graco Viscount 1:1	2111
	CAP Dosing Unit	Kadcam	2111
	Structure Spindle	Kadcam	2111
	Bead Applicator	Handok	2111
	Compressor	Campbell Hausfeld	DK639700
	Speedometer	Autoline 400	11928

<b>Applicator Speeds:</b>	<b>100mm</b>	<b>150mm</b>	<b>200mm</b>
<b>Schedule One</b>		1.61 km/h	
<b>Schedule Two</b>		1.75 km/h	
<b>Schedule Three</b>		1.62 km/h	
<b>Schedule Four</b>	2.43 km/h	1.87 km/h	1.42 km/h

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SCHEDULE ONE

**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. Material application rate of  $2.5\text{kg/m}^2 \pm 10\%$
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 Qd of  $100\text{ mcd/m}^2/\text{lux}$

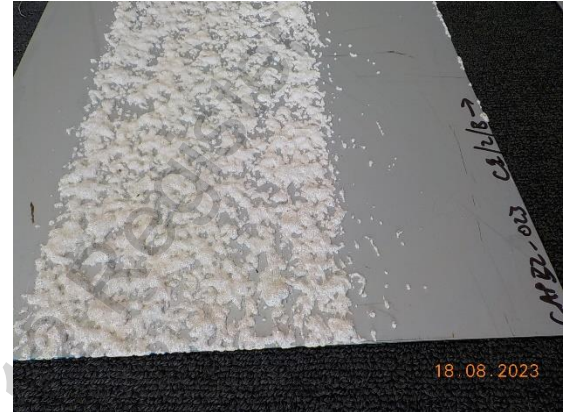
**Colour.**

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 TWO**

**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)

**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

**Skid Resistance.**

N/A



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SCHEDULE THREE

**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. Material application rate of  $2.5\text{kg/m}^2 \pm 10\%$
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  $300\text{gm/m}^2$ .

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

**Colour.**

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

**Skid Resistance.**

N/A



CERTIFICATE OF COMPLIANCE NZTA T 12:2013  
SCHEDULE FOUR

**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) of  $450\ \mu\text{m} \pm 75\ \mu\text{m}$ .

**Retroreflectivity.**

AS/NZS 2009 Class C (Intermix) 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.**

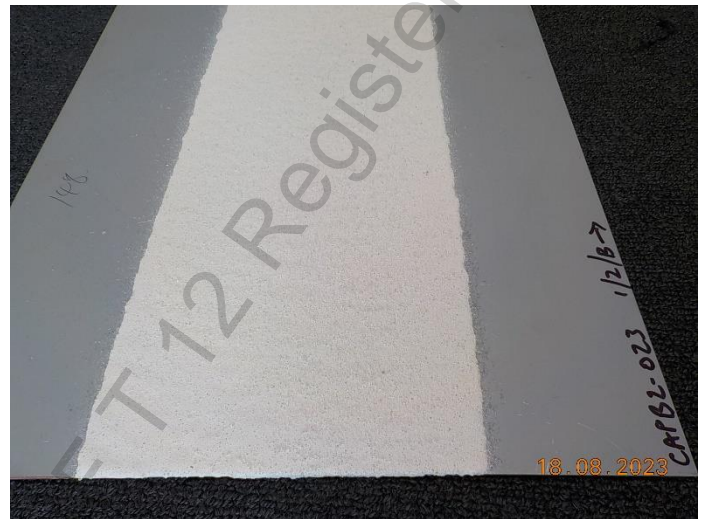
Minimum Qd of  $100\ \text{mcd}/\text{m}^2/\text{lux}$

**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



CERTIFICATE OF COMPLIANCE NZTA T 12:2013

**Registration Details:**

[NZRF Stamp & Unique Number]

5724



**Initial Certificate Testing Officer:**

Ross Ridings  
Quality Surveillance Ltd

**T/12 Testing Officer:**

Lance Wright  
Fulton Hogan Ltd T/A Coastline Markers

**Signed:**



**Date of Expiry:**

**17<sup>th</sup> August 2024**

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