

CERTIFICATE OF COMPLIANCE TNZ T/12:2003

Applicator: Kadcam Cub Cold Applied Plastic Applicator, chassis number 8007CAP

Owner: Capital Roadmarkers 2000 Ltd
PO Box 44107
LOWER HUTT 5040



Test Description: The pavement marking applicator as described by this certificate has been tested under the conditions described and found to comply with the relevant requirements of TNZ Specification TNZ T/12:2003.

Test Conditions: The scope of the TNZ T/12 Entry Qualification was as follows:
 1) Application of Structured Cold Applied Plastic to Schedule One, with thickness in accordance with CR215 Technical Specification and NZTA P 30:2008 Specification for High Performance Roadmarkings.
 2) Application of Audio Tactile Markings to Schedule Two, with markings in accordance with NZTA M 24 Specification for Audio Tactile Profiled Roadmarkings
 3) Application of Agglomerate Cold Applied Plastic to Schedule One, with thickness in accordance with CR2000 Technical Specification and NZTA P 30:2008 in conjunction with Audio Tactile Markings to Schedule Two, with markings in accordance with NZTA M 24.

Test Identification: The tests were carried out at the Capital Roadmarking 2000 Ltd Test Site at Lower Hutt on the 17th November 2011.
 The Applicator Chassis Number is 8007CAP.
 The material used for the tests was: Damar Bascoplast Cold Plastic 211 for both Schedule 1 and Schedule 2
 Potters Pristine Glass Beads (AS/NZS 2009 Type B) for both Schedules.

Equipment Tested:	165mm CAP Box	Kadcam	8007CAP
	Structure Unit	Kadcam	8007CAP
	Catalyst Unit	Kadcam	8007CAP
	Structure Spindle	Wisbrob	8007CAP
	Speedometer	Autolog 200	8007CAP
	Compressor	Campbell Hursfield	DK639700
	Bead Applicator	Wisbrob	8007CAP

Applicator Speeds:	Line Width			
	Schedule	100mm	150mm	200mm
	One		1.05	
	Two		0.88	
	One & Two		1.08	

Special Notes:

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Schedule One

Agglomerate Flat Cold Applied Plastic in Accordance with CR2000 Technical Specification NZTA P 30:2008, and NZTA T 12:2003

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in NZTA P 30: 2008 Specification for High Performance Roadmarkings.

The values specified in NZTA P 30:2008 used for determination of compliance were as follows:

Gap Length Between Segments

Where gap is 3.0m or more ± 300 mm

Where gap is less than 3.0m but greater than 1.0m ± 150 mm

Where gap is 1.0m or less ± 50 mm

Length of Segments

Where segment is longer than 5.0m ± 150 mm

Where segment is shorter than 5.0m but longer than
1.0m ± 75 mm

Where segment is 1.0m or shorter ± 50 mm

Cold Applied Plastic Line Width

All line widths $+10\% - 5\%$

Agglomerate Cold Applied Plastic

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

Retroreflectivity

Potters (AS/NZS 2009 Type 3) glass beads having AC07 adherence promoting coating applied evenly with correct embedment

Reflectivity (dry - R): A minimum of $150\text{ mcd/m}^2/\text{lux}$.

Reflectivity (condition of wetness - RW): A minimum of $80\text{ mcd/m}^2/\text{lux}$.

Skid Resistance

Greater than 50 BPN but less than 65BPN



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Schedule Two

Cold Applied Plastic Audio-Tactile in Accordance with NZTA M 24:2006, NZTA P/30:2008, and NZTA T 12:2003

The markings when applied to flat electro-galvanised steel plates met all dimension and performance requirements as specified in NZTA M 24:2006 Specification for Audio Tactile Profiled Roadmarkings, NZTA P 30:2008 Specification for High Performance Roadmarkings and NZTA T 12: 2003 Specification for Long-Life Pavement Marking Material Applicator Testing.

The values specified in NZTA M 24, NZTA P 30 and NZTA T 12 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 1.0m or less $\pm 50\text{mm}$

Length of Segments

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 1.0m or shorter $\pm 50\text{mm}$

Raised Blocks

Spacing between blocks $+30\%$ -20% of specified value (250mm)

Spacing between blocks $+30\%$ -20% of specified value (500mm)

Length of block $+30\%$ -20% of specified value (50mm)

Width of block $+30\%$ -20% of specified value (100 and 150mm)

Block height $\pm 25\%$ of specified value (7.0mm)

Retroreflectivity

Potters (AS/NZS 2009 Type B) glass beads having AC07 adherence promoting coating applied evenly with correct embedment

Reflectivity (dry - R): A minimum of $150 \text{ mcd/m}^2/\text{lux}$.

Reflectivity (condition of wetness - RW): A minimum of $80 \text{ mcd/m}^2/\text{lux}$.

Skid Resistance

Not Applicable



**CERTIFICATE OF COMPLIANCE
TNZ T/12:2003**

Registration Details: [NZRF Stamp & Unique Number}

3444



Initial Certificate

Issuing Officer:

R J Ridings
Quality Surveillance Ltd

Testing Officer:

R J Ridings
Quality Surveillance Ltd

Signed:



Date of Expiry:

17th November 2012

Copied from NZRF T 12 Register