

## CERTIFICATE OF COMPLIANCE TNZ T/12:2003



**Applicator:** Pedestrian Controlled Kadcam Cub  
Cold Applied Plastic Applicator,  
chassis number 8021CAP

**Owner:** Spray Marks Road Marking Ltd  
PO Box 3  
ASHBURTON

**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 NZTA T 12 certification was as follows:  
1) Application of Structured Cold Applied Plastic to Schedule One, with thickness in accordance with SMRM Technical Specification and NZTA P 30:2008 Specification for High Performance Roadmarkings.  
2) Application of Audio Tactile Markings to Schedule Two, NZTA M 24 Specification for Audio Tactile Profiled Roadmarkings  
3) Application of Structured Cold Applied Plastic to Schedule One, with thickness in accordance with SMRM Technical Specification 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 Kadcam Enterprises Ltd Test Site at Waitakere City on the 31<sup>st</sup> March 2010.

The Applicator Chassis Number is 8021CAP.

The material used for the tests was:

- (a) Damar Bascoplast Cold Plastic 210 for both Schedules 1, 2 and 3
- (b) AC 07 Adherence Promoting Coated Potters Glass Beads (AS/NZS 2009) for both Schedules

Equipment Tested:			
115mm CAP Box	Kadcam		8021CAP
165mm CAP Box	Kadcam		8021CAP
Structure Unit	Kadcam		8021CAP
Catalyst Unit	Kadcam		8021CAP
Structure Spindle	Wisbrob		8021CAP
Speedometer	Autolog 200		8021CAP
Compressor	Campbell Hursfield		DK639700
Bead Applicator	Wisbrob		8021CAP

Applicator Speeds:	Schedule	Line Width		
		100mm	150mm	200mm
	One		1.13	0.98
	Two		0.98	
	One & Two		0.98	

**Special Notes:** Applicator capable of marking on marking on both sides

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### Schedule One

#### **Structured Flat Cold Applied Plastic in Accordance with SMRM 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  $\pm$  300mm

Where gap is less than 3.0m but greater than 1.0m  $\pm$  150mm

Where gap is 1.0m or less  $\pm$  50mm

#### Length of Segments

Where segment is longer than 5.0m  $\pm$  150mm

Where segment is shorter than 5.0m but longer than  
1.0m  $\pm$  75mm

Where segment is 1.0m or shorter  $\pm$  50mm

#### Cold Applied Plastic Line Width

All line widths +10% - 5%

#### Structured Cold Applied Plastic

1. Minimum material application rate of 2.7kg/m<sup>2</sup>, with
2. A coverage between 55 and 75%, and
3. Line appearing continuous when sitting in a passenger car.

#### Retroreflectivity

Reflectivity (dry - R): A minimum of 150 mcd/m<sup>2</sup>/lux.

Reflectivity (condition of wetness - RW): A minimum of 80 mcd/m<sup>2</sup>/lux.

#### Skid Resistance

Greater than 50 BPN but less than 65BPN



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### Schedules Two & Three

#### **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 0 and NZTA T 12 used for determination of compliance were as follows:

#### Gap Length Between Segments

Where gap is 3.0m or more  $\pm$  300mm

Where gap is less than 3.0m but greater than 1.0m  $\pm$  150mm

Where gap is 1.0m or less  $\pm$  50mm

#### Length of Segments

Where segment is longer than 5.0m  $\pm$  150mm

Where segment is shorter than 5.0m but longer than 1.0m  $\pm$  75mm

Where segment is 1.0m or shorter  $\pm$  50mm

#### 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)

#### Structured Cold Applied Plastic

Minimum material application rate of 2.7kg/m<sup>2</sup>

Coverage between 55 and 75%, and

Line appearing continuous when sitting in a passenger car

#### Retroreflectivity

Reflectivity (dry - R): A minimum of 150 mcd/m<sup>2</sup>/lux.

Reflectivity (condition of wetness - RW): A minimum of 80 mcd/m<sup>2</sup>/lux

#### Skid Resistance

Not Applicable



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

**Registration Details:** [NZRF Stamp & Unique Number}

3109



**Initial Certificate**

**Issuing Officer:** R J Ridings  
Quality Surveillance Ltd

**Testing Officer:** R J Ridings  
Quality Surveillance Ltd

**Signed:**



**Date of Expiry:** 31<sup>st</sup> March 2011

Copied from NZRF T 12 Register