

## CHANGES TO SPECIFICATION FOR ROADMARKING PAINTS

### Changes to M07 Specification:

1. **Section 3 Definitions** – Addition of definitions for 30 Metre Geometry, Luminance Factor and Retroreflectivity (RI)
2. **Section 5 Composition** – New limits specified for heavy metal content in roadmarking glass beads; New requirement for all paints to be lead-free
3. **New Section 8.3 Luminance** – in lieu of daytime visibility, also new section 11.5 Luminance
4. **Section B7.2 Assessment of Retroreflectivity** – requires use of a retroreflectometer in compliance with NZTA T16 (the new T16 specification requires a 30-Metre Geometry instrument), also a similar change made in Section B8.2 Assessment of Retroreflectivity
5. **New Section B 7.4 Assessment of Luminance** – in lieu of daytime visibility, also a similar new section C 8.4 Assessment of Luminance
6. **New Section B 8.6 Optional Test: Procedure for Assessment of Retroreflectivity under conditions of wetness**, also similar new Section C 9.7 Optional Test: Procedure for Assessment of Retroreflectivity under conditions of wetness
7. **Section C8.2 Assessment of Retroreflectivity** – requires use of a retroreflectometer in compliance with NZTA T16 (the new T16 specification requires a 30-Metre Geometry instrument), also a similar change made in Section C9.3 Procedure for Assessment of Retroreflectivity
8. **New Section B 8.4 Procedure for Assessment of Luminance** – in lieu of daytime visibility, also a similar new section C 9.5 Procedure for Assessment of Luminance
9. **Section C9.1 Schedule of Testing** – changed to make it clear which tests should be carried out regularly, and which may be carried out less often
10. **Section C10.1 Life Expectancy Assessments** – Clarified timing of initial tests for assessment of retroreflectivity, colour and skid resistance
11. **Appendix G On-Road Performance Assessments** – added extra columns for new tests.

### Changes to M07 Notes:

1. Deleted:

Company	Paint Name	Reason Deleted
Alchemis	Aqualine – white <sup>1</sup>	Approval Expired
Apco	Apcolite Fast-Track – white <sup>6</sup>	Approval Expired
Damar	Highway Alkyd Super – yellow	Lead based yellow

<b>Company</b>	<b>Paint Name</b>	<b>Reason Deleted</b>
Damar	Highway Alkyd Standard B - yellow	Lead based yellow
Damar	Highway CR 98 - yellow	Lead based yellow
Damar	Highway Aqua 98 - yellow	Lead based yellow
Damar	Highway CRA - yellow	Lead based yellow
Linaro (Damar)	CR 50 - yellow	Lead based yellow
Linaro/Resene (Damar)	Alkyd HS 100 - yellow <sup>1</sup>	Lead based yellow
Dulux	Roadmaster HS Alkyd A21 - yellow <sup>3</sup>	Lead based yellow
Dulux	Roadmaster Waterbourne WB1 - yellow	Lead based yellow
Dulux	Roadmaster Chlorinated Rubber CR17 - yellow <sup>3</sup>	Lead based yellow
Dulux	Roadmaster Waterborne 394/62 - yellow	Lead based yellow
Metrotile	Roadguard - white	Approval Expired
Metrotile	Roadguard - yellow	Approval Expired
Resene	Tarmark AQT - white	Approval Expired
Wattyl	Streamline High Solids Alkyd - yellow <sup>1</sup>	Lead based yellow
Wattyl	Streamline Alkyd Extra - yellow	Lead based yellow
Wattyl	Streamline CR - yellow <sup>3</sup>	Lead based yellow

2. Added or Re-Approved:

<b>Company</b>	<b>Paint Name</b>	<b>Reason</b>
Damar	Highway BST White	New Approval
Damar	Bascolin 1/1 white <sup>9</sup>	New Approval
Damar	Bascolin 1/1 yellow <sup>9</sup>	New Approval
Damar	Beadlock - yellow <sup>8</sup>	Lead-free formulation
Damar	Highway Aqua 98 - yellow	Lead-free formulation
Damar	Highway CR Super B - yellow	Lead-free formulation
Damar	Highway Alkyd HP 98 - yellow	Lead-free formulation
Linaro (Damar)	Linaqua QL 90 - yellow	Lead-free formulation
Dulux	Roadmaster High Solid Alkyd A2 - yellow	Lead-free formulation

Company	Paint Name	Reason
Dulux	Roadmaster Chlorinated Rubber CR9 – yellow <sup>3</sup>	Lead-free formulation
Wattyl	Streamline Ultra Chlorinated Rubber – yellow	Lead-free formulation
Wattyl	Streamline Superdurable – yellow	Lead-free formulation
Wattyl	Streamline Acrylic Aquabead – yellow	Lead-free formulation

3. Re-Named:

Company	Paint Name (2007)	Replaced with (New Paint Name 2009)
Dulux	Roadmaster A2 High Solids Alkyd – white	Roadmaster Special A2 High Solids Alkyd – white
Dulux	Roadmaster A2 High Solids Alkyd Special – white	Roadmaster Special A2 High Solids Alkyd – white
Dulux	Roadmaster Chlorinated Rubber CR1 – white	Roadmaster Chlorinated Rubber CR12 – white
Dulux	Roadmaster HS Alkyd A250 – white <sup>3,4</sup>	Roadmaster Special A2 High Solids Alkyd – white
Dulux	Roadmaster HS Alkyd A2 – yellow	Roadmaster High Solid Alkyd A2 – yellow
Dulux	Roadmaster Chlorinated Rubber CR15 – white <sup>3</sup>	Roadmaster Chlorinated Rubber CR12 – white
Dulux	Roadmaster Chlorinated Rubber CR11 – white <sup>3</sup>	Roadmaster Chlorinated Rubber CR12 – white
Dulux	Roadmaster Waterborne WB1 – white	Roadmaster Waterborne WB2 – white
Dulux	Roadmaster Waterborne 394/62 – white	Roadmaster Waterborne WB2 – white

**Notes:**

- Note 1. No pick-up time of between 7 and 15 minutes.
- Note 2. This paint fails the 6 month storage test.
- Note 3. The no pick-up time is **greater** than 15 minutes.
- Note 4. The viscosity may increase significantly over time.
- Note 5. The non-volatile content may vary from the stated range.
- Note 6. These products approved are for use with large diameter (>1.0mm) and standard beads only, at a ratio of 1:1
- Note 7. This product was trailed at 278 microns dry film thickness.
- Note 8. These Products were trialled under TNZ M/7 Clause 4.2 Resistance to Trafficking during In-Situ Trial. In-situ trial test results are available on request from the manufacturer
- Note 9. This product is typically applied at 800 microns.

General: Paints may only be used on the State Highways for their 'Approved Use' category, e.g. paints approved as Non Reflectorised may only be used for markings **not** required to be reflectorised.

The A, B and C Classification denotes the durability of the products. Class C paints have met the specified criteria at higher traffic volumes than Classes B and A. Consequently Class C paints have tested to be more durable than Classes B and A and similarly Class B more durable than Class A.

Paints approved as Class C may be used in Classes A & B for their 'Approved Use', e.g. paint xxx Class C300 Reflectorised Markings may be used for Class B300 & Class A300 for Reflectorised Markings only. For products that are approved for various uses under increased trafficking e.g. failed the reflectivity requirements with increased traffic, these products are shown in their respective categories.