

## CHANGES TO PERFORMANCE BASED SPECIFICATION FOR RESEALS

### Changes to P17 Specification: October 2012

1. Changed “Consultant” to “Engineer” in clauses 4.7 and 4.8
2. Changed “maintenance period” to “defects liability period” in clauses 4.8, 7.1, 7.4, 10.1 and 10.2.
3. Added “cycleways” to clause 7.3
4. Added words “during the defects liability period” to clause 10.1, 3<sup>rd</sup> paragraph.
5. Corrected equation (6) on page 14. Changed 0.1 to 0.2
6. Italicised “*T<sub>d</sub>*” in clause 11.1, equation 8 to differentiate it from other instances of “Td”.
7. Corrected a reference in clause 11.1 to clause 9.2.1.

### Changes to P17 Specification: December 2011

8. Updated references to TNZ specifications to NZTA specifications.
9. **Section 1 Scope** – Added requirement that the chipseal is designed in accordance with the principles of the text book *Chipsealing in New Zealand*. Rephrased the first sentence under the bullet points.
10. **Section 3 Quality Plan** – Added requirement that the Contractor shall have available for inspection by the Engineer all documents detailed in the Quality Plan (this text has been moved from the last line of old Section 7).
11. **Section 4 Site Acceptance** – Rephrased introductory paragraph.
12. **Section 4.1 Confirmation of Treatment** – Rephrased and added words “and contract timing”.
13. **Section 4.2 Surface Hardness** – Changed 5<sup>th</sup> bullet point to “agree to an alternative risk profile and associated performance criteria as detailed in clause 4.8 of this specification”, deleting reference to TNZ P/4 Specification. Made same change in section 4.3.
14. **Section 4.3 Surface Texture** – Changed reference to *Bituminous Sealing Manual* to *Chipsealing in New Zealand*. Made same change in section 7.1.
15. **Section 4.4 Traffic Stress** – Changed “may” to “must”.
16. **Section 4.4 Traffic Stress 3<sup>rd</sup> Bullet point** – Changed to match last bullet point of sections 4.2 and 4.3 and to remove reference to TNZ P/4 Specification.
17. **New Section 4.5 Contract Timing**
18. **Section 4.6 Payment Reduction** – re-written to assist with implementation of changes in sections 4.2, 4.3 and 4.4.
19. **New Section 4.8 Alternative Risk Profile**
20. **Section 6 Traffic Control** – Changed “included in” to “covered by”. Added “continuous centreline length”.
21. **Section 7** – New Section Headings 7.1, 7.2, 7.4 and 7.5.
22. **Section 7.1 Chip Coverage** – re-written so the words “the whole sealed area shall have” appear on each bullet.
23. **Section 7.2 Defects** – re-written to emphasise visual inspection.
24. **New Section 7.3 – Loose and Surplus Chip** Previously this performance requirement was “After the speed restriction signs are removed the surface shall be regularly

- maintained during the maintenance period so that:" Now re-arranged so it is clear that this requirement must be met both before the speed restriction signs are removed (section 7.3) and throughout the maintenance period (section 7.4). Added new sentence at start of 7.3 regarding protection of drainage structures to prevent loose chip entering them.
25. **Section 7.3 – Loose and Surplus Chip** – Added new paragraph emphasising removal of all surplus chips not only from the works, but also from any roadside structures and any other areas within the road reserve where chips have been tracked.
  26. **New Section 7.4 – Maintenance of Surfacing**
  27. **New Section 7.5 – Same Day Sealing**
  28. **New Section 7.6 – Positive Traffic Control**
  29. **Section 8.2 Aggregate Properties** – changed reference to Pavement and Bitumen Contractors' Association to Roading New Zealand.
  30. **Section 8.3 Bituminous Binder Properties** – Added introductory sentence and reformatted Section 8.3 with bullets. Changed TNZ M/1 Specification to NZTA M1 Specification.
  31. **Section 8.3 Bituminous Binder Properties, 2<sup>nd</sup> bullet point** – Changed as AGO is no longer covered by NZTA M1 Specification for Roading Bitumens. Added sentence to allow for use of alternative fluxing materials, providing Contractor can demonstrate similar performance.
  32. **Table 1** – Added reference to PSV test to BS EN 1097-8:2009. Changed all TNZ to NZTA.
  33. **Section 9 and subsections** – Changed TNZ to NZTA.
  34. **Section 9.4** – changed “TD” to “Td” for consistency.
  35. **Section 10 Maintenance** – Added requirement for a monthly report throughout the maintenance period.
  36. **Section 10.1 Repairs** – Changed grade 4 to grade 6. Also changed wording so any repairs shall be performed using a chip with an ALD not exceeding 0.5 mm smaller than that of the original chip (previously “within 0.5 mm of the original chip”).
  37. **Section 10.1 Repairs** - Added words “The contractor shall design all repairs to ensure that the risk of a reduced seal design life is minimised”.
  38. **Section 10.2 Contractors Response Time for Intervening** – Added words to introductory paragraph explaining assessment of loose or lost chip (as defined in clause 7.3), loss of skid resistance (assessed visually, e.g. flushing) and added new first bullet point. “The Contractor shall: \* Respond, within two hours of becoming aware of the need for intervention, with the installation of temporary warning signs”.
  39. **Section 11.1 Single Coat Seals** – Equation 6 updated in order to remove a reference to Tf which was the traffic factor from the Bituminous Sealing Manual. Changed TNZ to NZTA.
  40. **Section 11.1 Single Coat Seals** – Equation 8, Changed “TD” to “Td” for consistency.
  41. **Schedule A** – Added Columns for Expected Life and Reason for Sealing in both schedules. Corrected reference in Note 1.