

**COVER NOTE FOR THE 1998 AUSTRROADS
GUIDE TO STABILISATION IN ROADWORKS (AP – 60/98)**
(Please purchase Austroad Guide from Standards New Zealand ph 04 - 498 5991)

INTRODUCTION

Transit New Zealand has adopted the Austroads *Guide to Stabilisation in Roadworks* (1998) as a Guideline. It is important to consider Transit New Zealand's definition of a Guideline when using the Guide. As given in Transit's *Standards and Guidelines* manual a guideline is defined as follows:

Guidelines may be modified to suit particular circumstances in order to optimise environmental, economic or resource utilisation impacts. Where such a modification is made, sufficient traceable justification should be retained for audit purposes. Because guidelines are only recommended good practice they require judgement in their application to particular circumstances. Consequently, the attachment of a legal disclaimer is necessary.

CONTENT

The Guide predominately covers the stabilisation of aggregates for use as base and sub-base materials. This type of stabilisation is likely to become more common in the future through policy developments such as performance based specifications and design build contracts where innovation is encouraged.

Other forms of stabilisation not well covered in the Guide can be located in the references and reading lists referred to in the Guide such as:

- Dunlop, RJ, *Lime Stabilisation for New Zealand Roads*. NRB RRU Technical Recommendation TR2, 1977.
- Transit New Zealand, *Stabilisation for New Zealand Roads: A Review*. Transit New Zealand Research Report No. 64, 1996.

It was not the intention of the Guide to include details on designing stabilised pavements as this is covered in the Austroads Pavement Design Guide and accompanying New Zealand Supplement which also take precedence.

SEALING

The NZ Bitumen Contractors' Association Inc. (BCA) state that the primers listed in Table 4.3 of this Guide are not suitable to New Zealand. The viscosities would be too high for use as a primer (no penetration) and too low for use as a first coat binder (no chip retention).

Approximate equivalents to bitumen grades:

Aust. Class	Minimum Penetration	NZ Penetration Grade
50	130	180/200
170	82	80/100
320	40	60/70
600	20	40/50

As per Transit's *Bituminous Sealing Manual* it is recommended the NZ BCA's safe codes of practice are complied with when sealing. Therefore, the use of any binders containing cutters exceeding 10% which have a flashpoint below 91 C are actively discouraged.

Specialised advise is required when designing a seal coat to minimise reflective cracking and/or adequately bond with a heavily bound base. For sealing on lightly bound bases normal first coat sealing practices can be used.

DISCLAIMER

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