

TNZ M/11: JUNE 1975

SPECIFICATION FOR PRE-COATING SEALING CHIPS

1. SEALING CHIPS

The sealing chips shall comply with the requirements defined in the current edition of the "*Specification For Sealing Chips*", TNZ M/6, and for supply only contracts, shall be of the size designated in the "*Specific Contract Requirements*" of this specification.

2. DRYNESS OF CHIPS PRIOR TO PRE-COATING

The chips shall be reasonably dry prior to pre-coating. The minimum degree of dryness acceptable being such that if the chips are spread one layer thick on a flat surface, they shall be completely surface dry within five minutes. This requirement will not apply to chips which are pre-coated with cationic emulsion or the asphaltic bitumen cutback which incorporates an approved adhesion agent.

3. PRE-COATING MATERIAL

The pre-coating material used shall be either a pre-coating tar or an asphaltic bitumen material as detailed in the "Specific Contract Requirements" section of this specification. The pre-coating material shall comply in all respects with the following requirements:

(a) Pre-Coating Tar

This shall comply with the requirements of the current edition of the "*Specification for Tar Materials*", TNZ M/2.

(b) Asphaltic Bitumen Material

This shall be either:

- (i) A cationic emulsified asphalt; or
- (ii) An asphaltic bitumen cutback produced by intimately blending 180/200 penetration grade bitumen with 60% by volume of lighting kerosene.

The 180/200 penetration grade bitumen and the lighting kerosene **shall** comply in all respects with the requirements defined in the current edition the "*Specification For Asphaltic Bitumens*" TNZ M/1. If the asphaltic bitumen cutback is to be used to pre-coat chips which do not comply with

the requirements of clause 2 of this specification for dryness, then an adhesion agent shall be added to the cutback.

The adhesion agent shall be of a type currently approved by Transit New Zealand for use in roading work.

4. APPLICATION OF THE PRE-COATING MATERIAL

All particles of aggregate must be thinly coated by means of a fine pressure spray on a moving stream of aggregate, or by mechanical mixing. The temperature of the pre-coating tar primer shall not exceed 40°C at the time of coating, and if the chips need to be heated prior to pre-coating they shall not be heated beyond 45°C. The asphaltic bitumen cutback shall not be heated to more than 45°C at time of coating.

5. STOCK PILING

The chips shall be coated not more than eight weeks prior to being spread on the road. Measures shall be taken to ensure that the pre-coated aggregate is not contaminated by dust or other deleterious matter prior to use. This shall be done by locating the stockpile or stockpiles on prepared sites remote from sources of contamination and by covering the stockpile or stockpiles where necessary.

6. CONDITION OF PRE-COATED CHIPS PRIOR TO BEING SPREAD ON THE ROAD

All particles of aggregate must be thinly and uniformly coated with the pre-coating material. The standard of pre-coating shall be such that from any representative sample of 100 chips:

- not more than two chips shall have no pre-coating;
- not more than 5 chips shall have less than 50% of the surface area pre-coated; and
- the remainder of the 100 chips not have less than 75% of the surface area pre-coated.

7. METHOD OF MEASUREMENT AND BASIS OF PAYMENTS FOR SUPPLY ONLY CONTRACTS

(**Note:** For supply and construct contracts, payment for supply of pre-coated sealing chips will be as defined in the construction specification).

Payment for pre-coated sealing chips will be made at the unit schedule rate on the total volume measured loose in cubic metres in trucks or other vehicles at the delivery point. The unit schedule rate shall be in full compensation for supplying of approved pre-coating material, supplying chips, application of pre-coating material, handling, transporting, and stockpiling and for all labour, use of equipment, tools and incidentals necessary to pre-coat the chips in accordance with this specification.

**SPECIFIC CONTRACT REQUIREMENTS
PRE-COATING SEALING CHIPS**

1. GRADE OF SEALING CHIPS

(According to requirements of TNZ
Specification M/6 for supply only
contracts.)

.....

2. TYPE OF PRE-COATING MATERIAL TO BE USED

Pre-coating Tar or Asphaltic Bitumen Material.
