

**TRANSPORT FOR NSW (TfNSW)**  
**SPECIFICATION D&C 3258**  
**AGGREGATE PRECOATING AGENT**  
**(FOR BITUMEN)**

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**REVISION REGISTER**

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SPECIFICATION D&C 3258

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# AGGREGATE PRECOATING AGENT (FOR BITUMEN)

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## FOREWORD

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### BASE SPECIFICATION

This document is based on Specification TfNSW 3258 Edition 8 Revision 1.

# **TfNSW SPECIFICATION D&C 3258**

## **AGGREGATE PRECOATING AGENT (FOR BITUMEN)**

### **1 SCOPE**

This Specification sets out the requirements for precoating agents for aggregate used in spray sealing with bitumen class 170. Precoating agents may be either ready for use or in a concentrated form to be blended before use.

### **2 STRUCTURE OF THE SPECIFICATION**

This Specification includes a series of annexures that detail additional requirements.

#### **2.1 (NOT USED)**

#### **2.2 SCHEDULE OF IDENTIFIED RECORDS**

The records listed in Annexure 3258/C are **Identified Records** for the purposes of Specification TfNSW D&C Q6 Annexure Q/E.

#### **2.3 (NOT USED)**

#### **2.4 REFERENCED DOCUMENTS AND DEFINITIONS**

Standards, specifications and test methods are referred to in abbreviated form (e.g. AS 2350). For convenience, the full titles are given in Annexure 3258/M.

The term “the Supplier” means the supplier of the product covered by the scope of this Specification.

### **3 (NOT USED)**

### **4 SUPPLIER’S QUALITY MANAGEMENT SYSTEM**

The Supplier must establish and maintain a Quality Management System complying with AS/NZS ISO 9001 as a means of ensuring that the product conforms to this Specification.

Provide evidence verifying compliance with this Clause.

## **5 MATERIAL REQUIREMENTS**

### **5.1 GENERAL**

Ready for use precoating agents may be cutback bitumen grade AMC00 complying with AS 2157 or other proprietary materials.

### **5.2 SAFETY**

The material must not contain any components which, when handled in accordance with approved work practices (such as those contained in “TfNSW Sprayed Sealing Guide” and “Austroads Guide to Pavement Technology Part 4B”), will cause the worker to be exposed to harmful substances above the legal limit concentration.

### **5.3 HOMOGENEITY OF LIQUID PRECOAT**

The precoating agent after agitation and when ready for use must be homogeneous and remain free from skinning precipitation or any other deterioration for 72 hours (Test Method TfNSW T590).

### **5.4 INITIAL ADHESION**

When tested in accordance with Test Method TfNSW T238 with Class 170 bitumen and each of the four aggregates: Microgranite (ex Mugga 1 Quarry, Canberra), Basalt (ex Peats Ridge), Quartzite (ex Marrangaroo, Lithgow) and Nepean River Gravel (ex Emu Plains) under the following four surface conditions:

- (i) clean and dry,
- (ii) dusty,
- (iii) saturated surface dry,
- (iv) saturated surface wet,

the percentage stripped must not exceed 10% with any combination of aggregate and surface condition listed above.

### **5.5 RESISTANCE TO STRIPPING**

When tested in accordance with Test Method TfNSW T230 using Class 170 bitumen and the four aggregates under the four surface conditions stated in Clause 5.4, the percentage stripped must not exceed 10% for any combination of aggregate and surface condition listed in Clause 5.3.

### **5.6 KEEPING QUALITIES**

The precoating agent must be able to comply with Clauses 5.3 to 5.5 after storage in the temperature range 4°C to 40°C in unopened containers for 6 months from the date of despatch by the Supplier.

### **5.7 CONCENTRATION OF ACTIVE COMPONENT**

Provide details of a reproducible laboratory test which will allow the concentration of the active component of the material to be determined. Specify an average value for the concentration of the



active component and an acceptable minimum value above which the material is considered to be effective.

## **6 PRODUCT CERTIFICATION**

Provide a certificate of compliance verifying that the precoating agent complies with Clause 5 of this Specification, together with test results reported on NATA endorsed test documents.

The certification must relate only to the formulation of the product on which the tests were carried out. New certification will be required every five (5) years or whenever a change in product formulation is made.

## **7 IDENTIFICATION OF CONTAINERS**

Mark each container clearly and durably to show the following information:

- (a) name of Supplier;
- (b) trade name of the product (if applicable);
- (c) product reference number or identification number;
- (d) batch number or date of manufacture; and
- (e) "Use By" date.

Provide a copy of the certificate of compliance and Safety Data Sheet with each delivery.

## **8 INFORMATION TO BE PROVIDED BY SUPPLIER**

Provide a Materials Data Sheet which include the following information:

- (a) chemical and physical properties;
- (b) recommended application rate;
- (c) recommended diluent and rate of dilution, where applicable;
- (d) recommended method of mixing;
- (e) storage life of precoat before applying to aggregate, without precipitation or other deterioration;
- (f) effective life of precoat when applied to aggregate and stockpiled.

## **ANNEXURES 3258/A TO 3258/B – (NOT USED)**

### **ANNEXURE 3258/C – SCHEDULE OF IDENTIFIED RECORDS**

Refer to Clause 2.2.

The records listed below are Identified Records for the purposes of TfNSW D&C Q6 Annexure Q/E.

<b>Clause</b>	<b>Description of Identified Records</b>
5.7	Average and minimum value of concentration of active component and details of related tests.
6	Certificate of compliance verifying that the precoating agent complies with Clause 5 together with test results reported on NATA endorsed test documents.
7	Certificate of compliance and Safety Data Sheet to be supplied with each delivery.
8	Materials Data Sheet.

## **ANNEXURES 3258/D TO 3258/L – (NOT USED)**

### **ANNEXURE 3258/M – REFERENCED DOCUMENTS**

Refer to Clause 2.4.

#### **TfNSW Specification**

TfNSW D&C Q6 Quality Management System (Type 6)

#### **TfNSW Test Methods**

TfNSW T230 Resistance to Stripping of Cover Aggregates and Binders

TfNSW T238 Initial Adhesion of Cover Aggregates and Binders

TfNSW T590 Homogeneity of Liquid Precoats and Adhesion Agents

#### **TfNSW Guides**

TP-GDL-001 TfNSW Sprayed Sealing Guide

#### **Australian Standards**

AS 2157 Cutback Bitumen

AS/NZS ISO 9001 Quality management systems – Requirements

#### **Austrroads Documents**

AGPT04B/07 Guide to Pavement Technology – Part 4B: Asphalt