

TRANSPORT FOR NSW (TfNSW)

QA SPECIFICATION 3258

AGGREGATE PRECOATING AGENT (FOR BITUMEN)

NOTICE

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REVISION REGISTER

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 3		Issued	GM, CMS	June 91
Ed 4	1 4.3, 4.4 5	Include previous clause 4.1 Test with Class 170 bitumen Certification for 5 years	GM, CMS	05.08.91
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Ed 6	1 1 & 2 2 & 3 4.3 & 4.4 4.6 5 6 7 Annexure 3258/1 Appendix A	Title changed Delete reference to C320 Delete reference to tar ISO 9002 replaced by ISO 9001 Update nomenclature New Update nomenclature Include "Use by" date requirement Include storage life requirement New annexure - Schedule of Identified Records New	GM, RNIC	31.08.01
Ed 7	2 & 3	Reference to ISO 9001 replaced by ISO 9002	GM, RNIC	23.10.01
Ed 8/Rev 0	"Notice" Spec Ref No Foreword	RTA PO Box and Fax numbers updated. Revision No added. Foreword, incorporating copyright clause, added.	GM, IC	31.07.09

Ed/Rev Number	Clause Number	Description of Revision	Authorised By	Date
Ed 8/Rev 0 (cont'd)	Global 2.4 5.2, Annex M	Text revised to direct imperative style. “shall” replaced by “must”. Reformatting and minor editing to clarify intent. Clauses rearranged and renumbered. Definitions of “you” and “your” added. References updated.		
Ed 8/Rev 1	Global	References to “Roads and Maritime Services” or “RMS” changed to “Transport for NSW” or “TfNSW” respectively.	DCS	22.06.20



AGGREGATE PRECOATING AGENT (FOR BITUMEN)

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VERSION FOR: DATE:

CONTENTS

CLAUSE	PAGE
FOREWORD	ii
TfNSW Copyright and Use of this Document	ii
Revisions to Previous Version	ii
Project Specific Changes	ii
1 SCOPE.....	1
2 STRUCTURE OF THE SPECIFICATION.....	1
2.1 (Not Used)	1
2.2 Schedule of Identified Records.....	1
2.3 (Not Used)	1
2.4 Referenced Documents and Definitions	1
3 (NOT USED).....	1
4 SUPPLIER'S QUALITY MANAGEMENT SYSTEM	1
5 MATERIAL REQUIREMENTS	2
5.1 General	2
5.2 Safety.....	2
5.3 Homogeneity of Liquid Precoat	2
5.4 Initial Adhesion	2
5.5 Resistance to Stripping.....	2
5.6 Keeping Qualities	2
5.7 Concentration of Active Component.....	2
6 PRODUCT CERTIFICATION	3
7 IDENTIFICATION OF CONTAINERS	3
8 INFORMATION TO BE PROVIDED BY SUPPLIER.....	3
ANNEXURES 3258/A TO 3258/B – (NOT USED).....	4
ANNEXURE 3258/C – SCHEDULE OF IDENTIFIED RECORDS	4
ANNEXURES 3258/D TO 3258/L– (NOT USED).....	4
ANNEXURE 3258/M – REFERENCED DOCUMENTS	5
APPENDIX A	6
LAST PAGE OF THIS DOCUMENT EXCLUDING APPENDIX A IS.....	5

FOREWORD

TfNSW COPYRIGHT AND USE OF THIS DOCUMENT

Copyright in this document belongs to Transport for NSW.

When this document forms part of a contract

This document should be read with all the documents forming the Contract.

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This copy is not a controlled document. Observe the Notice that appears on the first page of the copy controlled by TfNSW. A full copy of the latest version of the document is available on the TfNSW Internet website: <http://www.rms.nsw.gov.au/business-industry/partners-suppliers/specifications/index.html>

REVISIONS TO PREVIOUS VERSION

This document has been revised from Specification TfNSW 3258 Edition 8 Revision 0.

All revisions to the previous version (other than minor editorial and project specific changes) are indicated by a vertical line in the margin as shown here, except when it is a new edition and the text has been extensively rewritten.

PROJECT SPECIFIC CHANGES

Any project specific changes are indicated in the following manner:

- (a) Text which is additional to the base document and which is included in the Specification is shown in bold italics e.g. ***Additional Text***.
- (b) Text which has been deleted from the base document and which is not included in the Specification is shown struck out e.g. ~~Deleted Text~~.

TfNSW QA SPECIFICATION 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 Q Annexure Q/E.

2.3 (NOT USED)

2.4 REFERENCED DOCUMENTS AND DEFINITIONS

Unless specified otherwise, the applicable issue of a referenced document, other than a TfNSW Specification, must be the issue current at the date one week before the closing date for tenders, or where no issue is current at that date, the most recent issue.

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:

- (a) clean and dry,
- (b) dusty,
- (c) saturated surface dry,
- (d) 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 Q Annexure Q/E.

Clause	Description of Identified Records
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 Q Quality Management System

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

APPENDIX A

The requirements of this Appendix will apply where the order on the Supplier is placed directly by the Transport for NSW (TfNSW).

A1 MEASUREMENT

For precoating agent supplied in drums, measurement for the purpose of payment will be based on litres. For bulk delivery, measurement for the purpose of payment will be by net mass as measured on a certified weighbridge.

A2 PAYMENT

Payment for precoating agent conforming to the Specification will be made on the basis of the quantities measured in accordance with Clause A1.

In the case of precoating agent not conforming to the Specification, the cost of loading, freight and other charges incurred by the TfNSW prior to or subsequent to the material being rejected will be a charge against the Supplier.

The Supplier must provide the TfNSW with a certificate of compliance verifying that the precoating agent complies with the specification before payment is made.