

CONSTRUCTION SPECIFICATION

C244

**SPRAYED
BITUMINOUS SURFACING**

SPECIFICATION C244 - SPRAYED BITUMINOUS SURFACING

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CITATION

This document is named “Kempsey Shire Council, Construction Specification C244 – Sprayed Bituminous Surfacing”.

ORIGIN OF DOCUMENT, COPYRIGHT

This document was originally based on PMHC AUS-SPEC. Parts of the AUS-SPEC document that remain are still subject to the original copyright.

VERSIONS, C244 – Sprayed Bituminous Surfacing

VERSION	AMENDMENT DETAILS	CLAUSES AMENDED	DATE ISSUED (The new version takes effect from this date)	Authorised by the Director of Infrastructure
1.0	Version 1 – First Draft Version		March 2025	

SPECIFICATION C244 SPRAYED BITUMINOUS SURFACING

GENERAL

C244.01 SCOPE

1. The work to be executed under this Specification consists of the supply of all materials and the application of any or all of the following types of sprayed bituminous surfacing as required under the Works:

(i) Prime

Consisting of the application of a primer of field or refinery cutback bitumen without aggregate to provide penetration of the surface (preferably from 5 to 10 mm) and waterproofing.

(ii) Primerseal

Consisting of the application of a primerbinder of field or refinery cutback bitumen to provide surface penetration (preferably from 2mm to 5mm), into which aggregate is incorporated to provide a temporary wearing surface prior to the application of the final wearing surface.

(iii) Seal or Reseal

Consisting of the application of a bitumen binder into which aggregate is incorporated to provide a durable wearing surface.

2. The locations and required types of sprayed bituminous surfacings, including types of binders and aggregate sizes, shall be as shown on the approved plans and/or as detailed in Annexure C244.A.

3. For multiple application treatments, the binder and aggregate may be required to be laid in one or more separate applications.

4. Requirements for quality control and testing, including maximum lot sizes and minimum test frequencies, are cited in the CQC – Quality Control Requirements.

Quality

C244.02 REFERENCE DOCUMENTS

1. Unless noted otherwise within this Specification, for Sprayed Bituminous Surfacing (with Cutback Bitumen) shall conform to the requirements of the Roads and Maritime Services Specification R106 – Sprayed Bituminous Surfacing (with Cutback Bitumen)
2. Unless noted otherwise within this Specification, for Sprayed Bituminous Surfacing (with Polymer Modified Binder) shall conform to the requirements of the Roads and Maritime Services Specification R107 – Sprayed Bituminous Surfacing (with Polymer Modified Bitumen)
3. Unless noted otherwise within this Specification, for Sprayed Bituminous Surfacing (with Bitumen Emulsion) shall conform to the requirements of the Roads and Maritime Services Specification R111 – Sprayed Bituminous Surfacing (with Bitumen Emulsion)

**Documents
Standards Test
Methods**

4. Unless noted otherwise within this Specification, for Sprayed Bituminous Surfacing (for Enrichment & Rejuvenation) shall conform to the requirements of the Roads and Maritime Services Specification R112 – Sprayed Bituminous Surfacing (for Enrichment & Rejuvenation)
5. Unless noted otherwise within this Specification, for Sprayed Bituminous Surfacing (with Fibre Reinforcement) shall conform to the requirements of the Roads and Maritime Services Specification R113 – Sprayed Bituminous Surfacing (with Fibre Reinforcement)
6. Where the provisions of this Specification are in conflict with the relative Roads and Maritime Services Specification, the provisions of this Specification will take precedence.
7. Where the provisions of this Specification do not address a specific condition, the provisions of the relative Roads and Maritime Services Specification will take precedence

(a) Council Specifications

- C201 - Control of Traffic
- CQC - Quality Control Requirements

(b) Australian Standards

- AS 2008 - Bitumen for pavements.
- AS 2157 - Cutback bitumen.
- AS 2341.9 - Methods of testing bitumen and related road making products Determination of water content (Dean and Stark).
- AS 3568 - Oils for reducing the viscosity of residual bitumen for pavements
- AS 2758.2 - Aggregates and rock for engineering purposes Aggregate for sprayed bituminous surfacing.

(c) State Authorities

NSW Government Legislation

- Rural Fires Act, 1997

(d) Other

AUSTROADS

- AGPT03-09 - Guide to Pavement Technology Part 3: Pavement Surfacing
- AGPT04K-09 - Guide to Pavement Technology – Part K: Seals
- AGPT08K-09 - Guide to Pavement Technology Part 8: Pavement Construction

RMS Specifications

- MR466 - Sprayed Sealing Guide
- 3253 - Sprayed Bituminous Surfacing Cutback Chart
- 3258 - Bitumen for Pavements
- 3259 - Aggregate Precoating Agents
- 3259 - Bitumen Adhesion Agents
- 3261 - Cutback Bitumen

RMS Forms

- Form 354 - Sprayer Certificate
- Form 382 - Sprayed Bituminous Surfacing Cutback Chart
- Form 500A - Cutback Bitumen Prime and Primerseal Daily Record
- Form 500C - Cutback Bitumen Seal and Reseal Daily Record

(e) Standard Drawings

C244.03 ABBREVIATIONS

C244.04 DEFINITIONS

ANNEXURE C244A - DETAILS OF WORK

Section		Prime	Primer Seal		Seal or Reseal	
From	To		Binder	Aggregate	Binder	Aggregate