

Australian Standard[®]

**Paints and related materials—Pavement
marking materials**

**Part 5: Performance assessment of
pavement markings**



This Australian Standard® was prepared by Committee CH-003, Paints and Related Materials. It was approved on behalf of the Council of Standards Australia on 10 September 2007.

This Standard was published on 20 December 2007.

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- AUSTROADS
 - Australian Paint Approval Scheme
 - Australian Paint Manufacturers' Federation
 - Australian Industry Group
 - Business New Zealand
 - Master Painters Australia
 - National Association of Testing Authorities Australia
 - New Zealand Roadmarkers Federation
 - Roadmarking Industry Association of Australia
 - Surface Coatings Association Australia
 - Telstra Corporation
 - Transit New Zealand
 - Water Corporation Western Australia
-

This Standard was issued in draft form for comment as DR 06735.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4049.5-2007

**Paints and related materials–Pavement marking materials
Part 5: Performance assessment of pavement markings**

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Technical Committee CH-003 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NOTES

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First published as AS 4049.5—2007.

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Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8496 8

PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee CH-003, Paints and Related Materials.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standards as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard is the fifth of five parts dealing with pavement marking systems. Other Standards in the AS 4049 series are—

AS

- 4049 Paints and related materials—Pavement marking materials
- 4049.1 Part 1: Solvent-borne paint—For use with surface applied glass beads
- 4049.2 Part 2: Thermoplastic pavement marking materials—For use with surface applied glass beads
- 4049.3 Part 3: Waterborne paint—For use with surface applied glass beads
- 4049.4 Part 4: High performance pavement marking systems

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

	<i>Page</i>
FOREWORD.....	4
1 SCOPE.....	5
2 OBJECTIVE	5
3 REFERENCED DOCUMENTS.....	5
4 DEFINITIONS.....	5
5 TYPES OF PAVEMENT MARKING MATERIALS	6
6 TYPES OF PAVEMENT MARKINGS	6
7 PERFORMANCE PARAMETERS.....	6
8 PERFORMANCE ASSESSMENT	8
9 USE OF PERFORMANCE ASSESSMENT DATA	9
APPENDICES	
A LIST OF REFERENCED DOCUMENTS	10
B FACTORS AFFECTING THE PERFORMANCE OF PAVEMENT MARKING SYSTEMS	11
C DRIVE-THROUGH ASSESSMENT OF MARKING VISIBILITY	13
D DEVELOPMENT OF PERFORMANCE ASSESSMENT SAMPLING PLANS.....	15
E USE OF PERFORMANCE ASSESSMENT DATA	18

FOREWORD

Pavement marking systems are used to provide delineation, guidance and information predominantly for road users. A range of marking systems is used to provide specific performance requirements tailored to the needs of road asset owners, applicators and road users. This Standard provides requirements and guidelines, which are aimed at standardizing field performance assessment procedures, and provides information to assist with the use of assessment data in developing effective performance-based procurement and management processes.

STANDARDS AUSTRALIA

Australian Standard

Paints and related materials—Pavement marking materials

Part 5: Performance assessment of pavement markings

1 SCOPE

This Standard provides procedures for the assessment of the field performance of pavement markings, including the development of sampling plans and strategies for the use of gathered data. Pavement marking systems covered by this Standard include those providing delineation and guidance for vehicles and pedestrians.

2 OBJECTIVE

The objective of this Standard is to standardize performance assessment procedures, and to provide guidance in the use of assessment data and the development of effective performance-based procurement and management processes.

3 REFERENCED DOCUMENTS

A list of documents referred to in this Standard is given in Appendix A.

4 DEFINITIONS

For the purpose of this Standard the definitions in AS/NZS 2310 and those below apply.

4.1 Aggregate

A granular matter, used to provide the bulk of a marking system, or to improve surface characteristics such as skid resistance.

4.2 Audio tactile marking

A marking consisting of regular raised segments of material to provide an audible or vibratory feedback to the road user.

4.3 Pavement marking systems

A combination of applied materials that provides delineation and guidance.

4.4 Retroreflectivity

A property of some materials such as solid glass beads, to reflect incident light in directions close to the direction from which it came.

4.5 Skid resistance

That property of a surface which limits relative movement between a vehicle tyre contact area and the surface.

4.6 Slip resistance

Frictional force opposing movement of an object across a surface, usually with reference to the sole or heel of a shoe in relation to pedestrian surfaces.

4.7 Substrate

The substrate may be asphalt, spray seal, concrete, individual pavers or other vehicle or pedestrian surfaces.