

Australian Standard™

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

**Part 4: High performance pavement  
marking systems**



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 30 May 2006.  
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Australian Paint Manufacturers' Federation  
Building Research Association of New Zealand  
Business New Zealand  
Institution of Professional Engineers New Zealand  
Master Painters Australia  
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## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CH-003 on Paints and Related Materials. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide requirements and recommendations which may be used when specifying high performance pavement marking systems.

This Standard is the fourth of four 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

This Standard provides performance requirements for pavement marking materials.

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.

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## FOREWORD

Pavement marking systems are expected to perform under a wide variety of application, curing and exposure conditions, and therefore need to be assessed in both the laboratory and in the field. This Standard provides test procedures and performance criteria aimed at identifying systems which will provide satisfactory performance in specific applications, and provides users with the ability to define their own performance requirements.

It is strongly recommended that users of this Standard consult manufacturers for guidance on the suitability of a specific material as an applied marking.

## STANDARDS AUSTRALIA

### Australian Standard

## Paints and related materials—Pavement marking materials

### Part 4: High performance pavement marking systems

#### 1 SCOPE

This Standard sets out requirements for performance assessment and specification of pavement marking systems. These systems may include paint, thermoplastic, pre-formed sheet, adhesive tapes, hot or cold applied, catalysed or other materials.

#### 2 OBJECTIVE

To specify requirements for high performance pavement marking systems.

#### 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 provide 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 motorist.

##### 4.3 Substrate

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

##### 4.4 Test pavement

Substrate used for field testing.

##### 4.5 Pavement marking systems

A combination of applied materials that provide delineation and information.

##### 4.6 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.

##### 4.7 Skid resistance

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

##### 4.8 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.