

Australian Standard™

**Guide to the properties of paints for
buildings**

**Part 6: Solvent-borne—
Interior/exterior—Full gloss enamel**



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Australian Paint Approval Scheme

Australian Paint Manufacturers Federation

Master Painters Australia

National Association of Testing Authorities 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, Paints and Related Materials to supersede AS 3730.6—1991, *Guide to the properties of paints for buildings, Part 6: Solvent-borne—Exterior—Full gloss enamel* and AS 3730.11—1991, *Guide to the properties of paints for buildings, Part 11: Solvent-borne—Interior—Full gloss enamel*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this as an Australian, rather than an Australian/New Zealand Standard.

This AS 3730 series has been prepared as guides to the range of frequently used paints for buildings which are air-dried and generally applied on site. These guides include features of each product type and typical product characteristics. Typical product characteristics are to be taken as a guide only and are not mandatory. Because a product is used as part only of an overall painting system, the AS 3730 guides should not be used as a substitute for a detailed painting specification from the manufacturer, based on AS/NZS 2311—2000, *Guide to the painting of buildings*. Successful specifications are based on the proven performance of the total paint system, and not on the characteristics of individual paint products in isolation.

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

The solvent-borne interior/exterior full gloss enamels characterized by this guide are intended for use as finishing coats on walls and ceilings of kitchens and bathrooms and other surfaces requiring a degree of toughness and serviceability (e.g., windows, doors, handrails, trim). They also provide the decorative appeal of a full gloss finish.

Enamel finishes harden and become brittle with time owing to continuing oxidation of the alkyd binder. Embrittlement will lead to eventual failure of the coating by cracking, peeling and flaking on exterior timber, depending on aspect and severity of exposure. Regular maintenance painting will prolong service life.

Solvent-borne interior/exterior enamels produce more odour and VOC (volatile organic compounds) than latex paints, are slower drying and will yellow with age.

Before painting, surfaces should be prepared in accordance with the manufacturer's instructions or the appropriate section of AS/NZS 2311.

STANDARDS AUSTRALIA

Australian Standard

Guide to the properties of paints for buildings

Part 6: Solvent-borne—Interior/exterior—Full gloss enamel

1 SCOPE

This document provides a guide to the features and typical characteristics that are expected of a solvent-borne interior/exterior full gloss enamel finish when applied by brush, roller or spray, in accordance with the manufacturer's instructions. Paints covered by this guide are classified as Paint Type B5 of AS/NZS 2311.

2 REFERENCED DOCUMENTS

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

3 DEFINITIONS

For the purpose of this guide, the definitions of AS/NZS 2310 and those below apply.

3.1 Approximate colour match

Where the colour of the test sample appears the same as a reference sample when separated by a minimum of 100 mm and viewed under specified conditions.

NOTE: See guidance given in AS 3730.0.

4 OCCUPATIONAL HEALTH AND SAFETY

Refer manufacturer's Materials Safety Data Sheet before using these paints.

5 TYPICAL PROPERTIES AND CHARACTERISTICS

Table 2 provides a summary of typical properties.

5.1 Composition

The paint should consist essentially of pigments, extenders, solvents, alkyd resin, or modified alkyd binder. The product should meet the requirements of the Standard for Uniform Scheduling of Drugs and Poisons, issued by the National Drugs and Poisons Schedule Committee.

5.2 Conditions of test

Unless otherwise indicated, the recommendations in this guide apply to products that are tested as follows:

- (a) The test panel material is a piece of hardboard in accordance with AS/NZS 1580.104.1 which has been painted with one coat of undercoat characterized by AS 3730.14 and dried for at least 24 h. Where reference panels are required, they should be made of the same material as the test panels and should be prepared by identical methods at the same time as the test panels.
- (b) The size of test panels is as specified in Table 2 for the appropriate test method.
- (c) The method of application is by brush.