

Australian Standard<sup>®</sup>

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

**Part 13: Primer—Wood—  
Solvent-borne—Interior/exterior**

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This Australian Standard was prepared by Committee CH/3, Paints and Related Materials. It was approved on behalf of the Council of Standards Australia on 28 June 1991 and published on 16 September 1991.

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The following interests are represented on Committee CH/3:

Australasian Corrosion Association  
Australian Paint Manufacturers Federation  
Austroads  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Department of Defence  
Government Paint Committee  
National Association of Testing Authorities, Australia  
Railways of Australia Committee  
Retail Traders Associations of Australia  
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Surface Coatings Association, Australia  
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Revised and redesignated AS 3730.13–1991.

## PREFACE

This guide was prepared by the Standards Australia Committee on Paints and Related Materials to augment the range of Standards dealing with paints for buildings and supersede AS 2301–1980, *Wood primer, solvent borne, brushing*.

The AS 3730 series will progressively augment existing Standards on paints and replace SAA TR1 Parts 1 to 10–1982, *Paints for buildings*.

The 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 2311–1983, *The painting of buildings* or NATSPEC Section 570, *Painting*. Successful specifications are based on the proved performance of the total paint system, and not on the characteristics of individual paint products in isolation.

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## STANDARDS AUSTRALIA

## Australian Standard

## Guide to the properties of paints for buildings

## Part 13: Primer—Wood—Solvent-borne—Interior/exterior

**1 SCOPE** This document provides a guide to the features and typical characteristics that are expected of a solvent-borne wood primer when applied by brush in accordance with the manufacturer's directions.

Paints covered by this guide are classed as Paint Type 10 of AS 2311. They are used to seal surface porosity and to provide adhesion to timber for subsequent coatings.

**2 REFERENCED DOCUMENTS** A list of the documents referred to in this guide is attached as Appendix A.

**3 DEFINITIONS** For the purpose of this guide, the definitions of AS 2310 and those below apply.

**3.1 Frying** - undesirable wrinkling and crazing caused by the interaction of the solvent component of a topcoat which has been applied to an insufficiently cured previous coating.

**3.2 Working up** - any lifting, mixing, dissolution, incorporation, or other interaction observed between two paint films during the application of the overlying film.

NOTE: Such interaction is indicative of deterioration of the underlying coating during its curing period, especially if insufficient time has been allowed between coating applications (see also Clause 4.5.2).

**4 TYPICAL PROPERTIES AND CHARACTERISTICS**

**4.1 Composition** The paint should consist essentially of pigments, extenders, solvent, alkyd resin binders, drying oils or selected combinations of these materials. The product should meet the requirements of the Uniform Paint Standard issued by the National Health and Medical Research Council.

**4.2 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 unsealed and should be one of the standard grade hardboards specified in AS 2458. Where reference panels are required, they should be composed of the same material as the test panels and shall be prepared by identical methods at the same time as the test panels.
- (b) The size of test panels is specified in Table 1 for the appropriate test.
- (c) The method of application is by brush.
- (d) The spreading rate of the paint should be as specified by the manufacturer, typically in the range of 14 m<sup>2</sup>/L.
- (e) Environmental conditions for testing are in accordance with AS 1580.101.5.
- (f) Environmental conditions for air-drying are in accordance with AS 1580.101.1.

NOTE: See also AS 3730.0 for information on the testing of paints for quality control purposes during manufacture.

**4.3 Liquid paint**

**4.3.1 Condition in container** When examined in accordance with AS 1580.103.1 at the time of delivery from the manufacturer or supplier, the paint should be free from gel, coarse particles, skin and foreign matter. It should yield a product of uniform consistency when incorporated manually in accordance with AS 1580.211.2.

**4.3.2 Fineness of grind** When determined in accordance with AS 1580.204.1, the fineness of grind should be less than or equal to 65 µm.

**4.3.3 Volume solids** When a requirement for volume solids is included, it should be determined and expressed in accordance with AS 1580.301.2.

**4.3.4 Skin formation** When the paint is tested in accordance with AS 1580.203.1, it should show no skin formation.

**4.3.5 Storage stability** When housed under cover in the original unopened container at ambient temperatures for 18 months from the date of manufacture, and examined in accordance with AS 1580.103.1, the test primer should exhibit the following properties:

- (a) a settlement rating of no less than 6 as defined in AS 1580.211.1; and
- (b) uniform consistency free of lumps, gel, sediment and visible defects as described in AS 1580.211.2, after stirring.