

Australian Standard™

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

**Part 28: Wood stain—Solvent-borne—
Exterior**



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 21 December 2005.
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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 3730.28—1993, *Guide to the properties of paints for buildings, Part 28: Wood stain—Solvent-borne—Exterior*. 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.

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, i.e., it is not mandatory for a product to have these characteristics. Because a product is used as part only of an overall painting system, the AS 3730 guides should not be used as substitutes 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.

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 exterior wood stain characterized by this guide provides a finish that maintains the appearance of texture or grain on rough-sawn or dressed exterior timber. The timber to be coated should typically be of an intrinsically durable nature, i.e., not subject to shrinking or cracking. These finishes are intended mainly for exterior use on timbers. They may also find use on interior exposed beams. They are intended as a finishing stain which does not necessarily require overcoating with clear finishes.

Two coats are normally required on external timber areas as differential colour change can occur if only one coat is applied. Frequent maintenance will be required to ensure long service life. These coatings will have significantly shorter service life than coatings characterized by AS 3730.16. Successive recoats of semi-transparent stain will cause a colour change and loss of transparency and reference to the manufacturer may be necessary.

Solvent-borne exterior wood stains will produce more odour and VOC (volatile organic compounds) than latex paints and are slow drying.

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

STANDARDS AUSTRALIA

Australian Standard

Guide to the properties of paints for buildings

Part 28: Wood stain—Solvent-borne—Exterior

1 SCOPE

This document provides a guide to the features and typical characteristics that are expected of a solvent-borne wood stain (opaque or semi-transparent) when applied by brush in accordance with the manufacturer's instructions to rough-sawn or dressed timber.

Stains covered by this Standard are classified as paint Type B23 and B23A of AS/NZS 2311.

2 REFERENCED DOCUMENTS

The documents referred to in this guide are given in Appendix A.

3 DEFINITIONS

For the purpose of this guide the definitions given in AS/NZS 2310 apply.

4 OCCUPATIONAL HEALTH AND SAFETY

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

5 TYPICAL PROPERTIES AND CHARACTERISTICS

NOTE: Table 1 provides a summary of typical properties.

5.1 Composition

The stain should consist essentially of pigments, dispersed in a suitable binder and solvent.

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 consists of timber in accordance with AS/NZS 1580.104.1. Where reference panels are required, they should be made of the same material and be prepared, by identical methods, at the same time as the test panels.

NOTE: For a specific application, use timber type specified for the building to check the stain colour.

- (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 stain should be as specified by the manufacturer.
- (e) Environmental conditions for testing are in accordance with AS/NZS 1580.101.5.