

Australian Standard™

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

**Part 27: Clear coatings for interior
timber floors**

STANDARDS
Australia



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 18 May 2006.
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PREFACE

This guide was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CH-003, Paints and Related Materials, to supersede AS 3730.26—1993, *Guide to the properties of paints for buildings, Part 26: Floor varnish—Moisture cured* and AS 3730.27—1993, *Guide to the properties of paints for buildings, Part 27: Floor varnish—Two-pack—Isocyanate cured*. 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 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. These 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 2311, *Guide to the painting of buildings*. Successful specifications are based on the proved 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

Floor coatings characterized by this guide are intended for use on interior timber floors. The applied films are clear, normally full gloss, extremely hard and highly resistant to foot traffic. The Standard provides some guidelines as to the choice of various coatings available.

Before painting, surfaces should be prepared in accordance with the appropriate section of AS/NZS 2311 or the manufacturer's instructions. Recommended recoating intervals should be noted. Some floor coatings contain toxic components and attention should be paid to health and safety precautions detailed on product labels, or to the Manufacturer's Safety Data Sheets (MSDS).

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Guide to the properties of paints for buildings

Part 27: Clear coatings for interior timber floors

1 SCOPE

This document provides a guide to the features and typical characteristics that are expected of interior clear coatings for timber floors when applied by brush or applicator (pad/lambswool) in accordance with the manufacturer's instructions.

Products complying with this Standard may be one of the following types:

Type 1—Single-pack solvent-based oxidising tung oil-based.

Type 2—Single-pack solvent-based or solvent-free moisture cure urethane.

Type 3—Two-pack solvent-based or solvent-free polyurethane.

Type 4—Water-based.

Paints satisfying the requirements of this guide are equivalent to paint Type B19, B19A, B20 or B43 of AS/NZS 2311, Table 4.1.

2 REFERENCED DOCUMENTS

The documents referred to in this guide are listed 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 (MSDS) before using these paints.

5 TYPICAL PROPERTIES AND CHARACTERISTICS

NOTE: Table 1 provides a summary of typical properties.

5.1 Composition

Type 1 coatings should consist of a drying oil such as tung oil in a volatile organic solvent.

Type 2 coatings should consist of a polymer of polyols and isocyanate-functional materials and a volatile organic solvent. Some products of this type may be solvent-free.

Type 3 coatings should consist essentially of an hydroxy-functional polymer and a volatile organic solvent as one component, and a polyisocyanate-functional polymer and volatile organic solvent as the second component. Some products of this type may be solvent-free.

Type 4 coatings should consist of an appropriate polymer emulsified in water.

The products should meet the requirements of the Uniform Paint Standard in the Standard for Uniform Scheduling of Drugs and Poisons issued by the National Drugs and Poisons Schedule Committee.