

AS 3730.15—1991

Australian Standard[®]

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

**Part 15: Primer—Latex—For
metallic zinc surfaces**

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.

The following interests are represented on Committee CH/3:

Australasian Corrosion Association
Australian Paint Manufacturers Federation
Austroads
Confederation of Australian Industry
Department of Defence
Government Paint Committee
National Association of Testing Authorities, Australia
Railways of Australia Committee
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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.

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 15: Primer—Latex—For metallic zinc surfaces

1 SCOPE This document provides a guide to the features and typical properties that are expected of a water-borne latex, primer paint for interior and exterior use on zinc and zinc alloy surfaces (e.g. galvanized iron) when applied by brush, roller or spray, in accordance with manufacturer's instructions.

Paints covered by this guide are classified as Paint Type 12 of AS 2311.

The guide deals with primers that are to be further coated with latex paints or solvent-borne paints.

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 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 or after the application of the overlying film.

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

4 TYPICAL PROPERTIES AND CHARACTERISTICS

NOTE: Table 1 provides a summary of typical properties.

4.1 Composition The primer should consist essentially of pigments, extenders and latex binders in aqueous suspension. 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:

- The test panel material is degreased zinc coated or zinc/aluminium alloy coated steel complying with AS 1397. Where reference panels are required, they should be composed of the same material and be prepared, by identical methods, at the same time as the test panels.
- The size of test panels is specified in Table 1 for the appropriate test.
- The method of application for test purposes is by brush.
- The spreading rate of the paint should be as specified by the manufacturer, typically 16 m²/L.
- Environmental conditions for testing are in accordance with AS 1580.101.5.
- Environmental conditions for air-drying are in accordance with AS 1580.101.1.

NOTE: AS 3730.0 provides information on testing paints for quality control purposes during manufacture.

4.3 Liquid paint

4.3.1 Condition in container When tested 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 readily 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 50 µm.

4.3.3 Volume solids Where a volume solids requirement is specified, it should be determined and expressed in accordance with AS 1580.301.2.

4.3.4 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 paint should exhibit—

- a settlement rating of no less than 6 as defined in AS 1580.211.1; and
- uniform consistency free from lumps, gel and other defects when stirring, as described in AS 1580.211.2.

The container should not exhibit rust or other signs of corrosion on its interior surface.