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Australian Standard®

**Paints for steel structures—
High-build epoxy (two-pack)**

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STANDARDS AUSTRALIA 

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 14 May 1990 and published on 15 October 1990.

The following interests are represented on Committee CH/3:

Australian Paint Manufacturers Federation
Australian Retailers Association
Confederation of Australian Industry
Department of Defence
Government Paint Committee
National Association of Australian State Road Authorities
National Association of Testing Authorities, Australia
Railways of Australia Committee
Royal Australian Institute of Architects
Telecom Australia

Additional interests participating in preparation of Standard:

Australasian Corrosion Association

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**Paints for steel structures—
High-build epoxy (two-pack)**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Paints and Related Materials under the direction of the Chemical Standards Board. It forms part of a series of product Standards for paints referred to in AS 2312, *Guide to the protection of iron and steel against exterior atmospheric corrosion*.

The following Standards in this series have been published

- AS 2602 *Paints for steel structures—Full-gloss polyurethane (two-pack)*
- AS 2603 *Paints for steel structures—Full-gloss epoxy (two-pack)*
- AS 2672 *Paints for steel structures—Chlorinated rubber, high-build*
- AS 2673 *Paints for steel structures—Alkyd/Micaceous iron oxide*
- AS 2674 *Paints for steel structures—Primers—Epoxy (two-pack)*.

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STANDARDS AUSTRALIA

Australian Standard

Paints for steel structures—High-build epoxy (two-pack)

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for a two-component, high-build epoxy paint intended to be used for the protection of iron and steel against exterior atmospheric corrosion. It is intended primarily for paints applied by spraying (conventional pressure pot or airless). Paints specified in this Standard comply with the requirements of Paint Type 13 as cited in Appendix B of AS 2312. This paint may be produced in a range of colours and may be pigmented with micaceous iron oxide pigments.

This Standard is applicable to paints intended for the protection of iron and steel against corrosion in damp and wet areas, and in those involving high humidity, coastal/marine and industrial atmospheres. It may be used as—

- (a) high-build, single coat or multi-coat finish; or
- (b) intermediate, high-build coating under full-gloss epoxy paint complying with AS 2603 or full-gloss polyurethane paint complying with AS 2602.

It is not intended to be applicable to epoxy paints used in exterior applications where long-term retention of colour and gloss is required.

NOTES:

1. This paint may be used with the appropriate primer in the following systems of AS 2312: MP5-A, MP5-E, LPI-A, LPI-E, LP2-A, LP2-E, GZVLP-A, MSAVLP-A, MSZVLP-A and, as one coat of protection, in system MP-1C.
2. Appendix A contains recommendations and advice on information which should be provided by the purchaser at the time of enquiry or order.
3. Additional information on the use and application of epoxy paints is contained in Appendix B.
4. Alternative methods for determining compliance with this Standard are given in Appendix C.

1.2 REFERENCED DOCUMENTS A list of the documents referred to in this Standard is contained in Appendix D.

1.3 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2310 and those below apply.

1.3.1 Commercial match—a level of visual colour matching achieved when the colour of a test sample *appears* no different to that of the designated reference sample when the two samples separated by a minimum of 100 mm, are viewed under normal, or otherwise specified, lighting conditions.

1.3.2 Component—the term used to describe each of two parts of the paint, which when mixed together form the pigmented epoxy paint.

1.3.3 High-build epoxy paint—a paint consisting essentially of epoxy resin base, polyamide or amine adduct or other hardener (excluding free, volatile amines) with appropriate pigments and solvents mixed together in the proportions recommended by the manufacturer.

NOTE: Anti-settling and anti-sag agents may be necessary to provide high-build and prevent sagging during application.

1.3.4 Micaceous iron oxide (MIO) paint—a paint whose pigment content includes micaceous iron oxide complying with AS 2855 as a major component, and which retains its lamellar form in the paint film.

1.4 SAFETY PRECAUTIONS Epoxy paints contain epoxy resin and organic amines in chemical combination. During mixing and application, protective clothing and gloves should be worn to minimize skin contact (see Appendix B).

As the paint is intended for industrial use only, lead pigments may be present in some colours. Reference to the appropriate statutory requirements is necessary particularly in relation to packaging and labelling of the product.