

Australian Standard[®]

Paints for steel structures

**Part 1: Epoxy mastic
(two-pack)—For rusted steel**

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 2 July 1993 and published on 19 September 1994.

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Australasian Corrosion Association
Australian Paint Manufacturers Federation
AUSTROADS
Government Paint Committee
Railways of Australia Committee
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PREFACE

This Standard was prepared by the Standards Australia Committee on Paints and Related Materials, under the direction of the Multitechnics Standards Policy 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

- 2364 Paints for steel structures—High-build epoxy (two-pack)
- 2602 Paints for steel structures—Full gloss polyurethane (two-pack)
- 2603 Paints for steel structures—Full gloss epoxy (two-pack)
- 2672 Paints for steel structures—Chlorinated rubber, high build
- 2673 Paints for steel structures—Alkyd/micaceous iron oxide
- 2674 Paints for steel structures—Epoxy primer (two-pack)
- 3884 Etch primers (single-pack and two-pack) for pretreating metal surfaces
- 3885 Paints for steel structures—Galvanized and zinc primed—Latex
- 3886 Paints for steel structures—Vinyl paint—High-build
- 3887 Paints for steel structures—Coal tar epoxy (two-pack)

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STANDARDS AUSTRALIA

Australian Standard

Paints for steel structures

Part 1: Epoxy mastic (two-pack)—For rusted steel

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for a two-component, high-build, high-solids, epoxy mastic for the protection of iron and steel against exterior atmospheric corrosion in a severe industrial or coastal marine environment. It is intended primarily for use on imperfectly prepared surfaces, i.e. surfaces which have been cleaned only by hand or power tool to the extent that bare steel areas with residual rust and some previously applied paint of any type are still present. Paint specified in this Standard is described in AS 2312 as Paint Reference 32. This product is generally pigmented with aluminium, however, it may be produced in a restricted range of colours. It is designed primarily for use as a single coat, high-build, self priming finish.

NOTES:

- 1 This paint may be used as detailed for system SP3, MP8A in AS 2312.
- 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 Approximate match—a level of visual colour matching achieved when the colour of a test sample *appears* no different from that of the designated reference sample when the two samples are separated by a distance of 100 mm, but a small colour difference can be seen when the separation distance is reduced to 20 mm.

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 Epoxy mastic—a high-build paint consisting essentially of epoxy resin base, polyamide or amine adduct or other hardener (excluding free, volatile amines), together with wetting and flexibilizing agents to improve adhesion, and 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 Pot-life—the maximum time after mixing the two components, thinned as appropriate to the method of application, that a two-pack product may be retained for use before there is a deterioration of the properties of the deposited dry film, or adverse thickening or thinning that affects the spraying properties of the material (Refer Clause 2.4.4).