AS 2364

Under Revision - See DR96013

WITHDRAWN: 19971105

AS 2364-1990

SUPERSEDED BY: AS/NZS 3750.14:1997



Australian Standard®

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



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

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard®

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

First published as AS 2364-1990.

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

The following Standards in this series have been published

AS 2602 Paints for steel structures—Full-gloss polyurethane (two-pack) AS 2603 AS 2672

Paints for steel structures—Full-gloss epoxy (two-pack)
Paints for steel structures—Chlorinated rubber, high-build
Paints for steel structures—Alkyd/Micaceous iron oxide AS 2673

AS 2674 Paints for steel structures—Primers—Epoxy (two-pack).

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the Head Office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

•	,				•				•			Page
SECT	ION 1. SCOPE AND GENE	RAL										
1.1	SCOPE											4
1.2	REFERENCED DOCUMEN								••••			4
1.3	DEFINITIONS											4
1.4	SAFETY PRECAUTIONS										*	4
SECT	ION 2 MATERIAL REQUIR	REME	ENTS									
2.1	•											15
2.1	CONDITIONS OF TEST											: 5
2.3	LIQUID PAINT										••••	5
2.4	SPRAY APPLICATION PR					••••					••••	5
2.5									••••			5
2.6	MIXING RATIO										••••	7
2.7	ADDITIONAL TESTS									••••	••••	7
	,					••••	••••	••••	••••	••••	• • • •	•
SECT	ION 3 PACKAGING AND I	LABE	ELLIN	4G								
3.1	PACKAGING											8
. 3.2	LABELLING	••••			• • • •							8
APPE	NDICES			٠								
Α	PURCHASING GUIDELINE	S										9
B	GUIDANCE ON THE USE	ΔΝΓ) AP	 PI IC	ATIC	N O	 F HI	 GH₋R	 !	FP()X V	
	PAINT							<i>D</i>				10
С	MEANS FOR DEMONSTRAT	ΓING	CON	MPLI.	ANC	E WI	гн т	HIS S	TANI	DARE)	12
D	REFERENCED DOCUMENT											14
E	PREPARATION OF TEST P	ANE	LS									16
F	DETERMINATION OF POT	LIFE	E OF	A HI	GH-I	BUILI	D EP	OXY	PAIN	ΙΤ		17
G	DETERMINATION OF THE											
	PAINT _.										••••	18
·H	ASSESSMENT OF RESISTA				_		_	_			••••	19
I	ASSESSMENT OF RESISTAN											20
J	ASSESSMENT OF RESIST	i i										22
7.7												22
, K	PROCEDURE FOR TESTIN PAINT SYSTEM	NG D	UKA	RILL	1 Y (JF A	HIG	H-R	JILD,	EP(JΧΥ	23 ·
L	ADDITIONAL TESTS											24

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 fallout. 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, LP1-A, LP1-E, LP2-A, LP2-E, GZVLP-A, MSAVLP-A, MSZVLP-A and, as one-coat protection, in system MP-IC.
- 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.