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AS 3886—1991

Australian Standard®

**Paints for steel structures—Vinyl
paint—High build**



STANDARDS AUSTRALIA 

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Australian Paint Manufacturers Federation
Australian Retailers Association
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Confederation of Australian Industry
Department of Defence
Government Paint Committee
National Association of Testing Authorities, Australia
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**Paints for steel structures—Vinyl
paint—High-build**

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PREFACE

This Standard was prepared by a subcommittee of the Standards Australia Committee on Paints and Related Materials under the direction of the Chemical Standards Board.

The Standard forms part of a series of Australian paint Standards dealing with the protection of iron and steel against corrosion.

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CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 REFERENCED DOCUMENTS	4
1.3 DEFINITIONS	4
1.4 SAFETY PRECAUTIONS	4
SECTION 2 MATERIAL REQUIREMENTS	
2.1 GENERAL	5
2.2 CONDITIONS OF TEST	5
2.3 LIQUID PAINT	5
2.4 SPRAY APPLICATION PROPERTIES	5
2.5 APPLIED FILM	5
SECTION 3 PACKAGING AND LABELLING	
3.1 PACKAGING	8
3.2 LABELLING	8
3.3 ADDITIONAL MARKING	8
APPENDICES	
A PURCHASING GUIDELINES	9
B GUIDANCE ON THE USE AND APPLICATION OF HIGH-BUILD VINYL PAINT	10
C MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	12
D LIST OF REFERENCED DOCUMENTS	14
E PREPARATION OF TEST PANELS	15
F PROCEDURE FOR ASSESSING RESISTANCE OF HIGH-BUILD VINYL PAINTS TO WATER	16

STANDARDS AUSTRALIA

Australian Standard

Paints for steel structures—Vinyl paint—High-build

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for high-build vinyl paints used as intermediate or topcoat coatings and intended to protect iron and steel against exterior atmospheric corrosion when applied by conventional air spraying or airless spray. Paints specified in this Standard comply with the requirements for Paint Type 16 given in AS 2312.

This Standard is applicable to high-build vinyl paints used as an intermediate or topcoat paint for the protection of iron and steel against corrosion in damp and wet areas, high humidity and coastal/marine situations and where there is industrial fallout.

The paint may be produced in a range of colours and may be pigmented with micaceous iron oxide (MIO).

NOTES:

- 1 When used with appropriate primers, the paint should comply with the requirement of systems MP5-B, MP5-G, MP6-B, LP1-C, LP1-G, LP2-C, LP2-G, GZVLP-C, MSVLP-A and MSZVLP-A described in AS 2312.
- 2 When used as an intermediate coat, the paint may be topcoated with a vinyl gloss paint complying with the requirements of paint type 23 given in AS 2312.
- 3 Appendix A provides recommendations on information which should be provided by the purchaser at the time of enquiry or order.
- 4 Additional information on the use and application of high-build vinyl paint is given in Appendix B.
- 5 Alternative means for determining compliance with this Standard are given in Appendix C.

1.2 REFERENCED DOCUMENTS A list of the Standards 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 from 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 High-build vinyl paint A paint consisting essentially of a solution of vinyl copolymer resin, suitable plasticizers, modifying resin (5 percent maximum) with appropriate pigments, stabilizers and solvents.

1.3.3 Micaceous iron oxide (MIO) paint A paint having a pigment composition which includes micaceous iron oxide complying with AS 2855 as a major component and which retains its lamellar form in the paint film.

1.3.4 Solution vinyl copolymer resin A resinous material containing copolymers of vinyl chloride/acetate or vinyl isobutyl ether which is soluble in organic solvents.

1.4 SAFETY PRECAUTIONS Vinyl paints are safe to handle, provided that adequate ventilation is maintained during application and drying.

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

Vinyl resin decomposes on excessive heating to release toxic fumes. It is therefore necessary to avoid applying direct heat to vinyl resin residues or coatings by such processes as burning coated surfaces and the use of cutting/welding torches on structures painted with vinyl resin.

NOTE: Appendix B provides further information on safety precautions.