

Australian/New Zealand Standard

Paints for steel structures

Part 8: Vinyl paints— Primer, high-build and gloss

AS/NZS 3750.8:1994

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Australian Chamber of Commerce and Industry
Australian Paint Manufacturers Federation
AUSTROADS
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Government Paint Committee
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 3750.8:1994

Paints for steel structures

Part 8: Vinyl paints—Primer, high-build and gloss

RECONFIRMATION NOTICE

Technical Committee CH-003 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
Institution of Professional Engineers New Zealand
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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH/3 on Paints and Related Materials. It is issued as a Joint Standard under the terms of the Active Cooperation Agreement between Standards Australia and Standards New Zealand.

The objective of this Standard is to specify requirements for vinyl paints used on steel structures.

The Standard also revises the 1991 edition of AS 3886, *Paints for steel structures—Vinyl paint—High-build* and extends its application to vinyl primers and vinyl gloss paints. 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)
- 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
- 3887 Paints for steel structures—Coal tar epoxy (two-pack)
- 3750 Paints for steel structures
- 3750.1 Part 1: Epoxy mastic (two-pack)—For rusted steel
- 3750.2 Part 2: Ultra high-build paint

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- 3750.3 Part 3: Heat resisting—Exterior
- 3750.4 Part 4: Bitumen paint
- 3750.5 Part 5: Acrylic full gloss (two-pack)
- 3750.6 Part 6: Full gloss polyurethane (two-pack)
- 3750.7 Part 7: Aluminium paint
- 3750.9 Part 9: Organic zinc-rich primer
- 3750.10 Part 10: Full gloss epoxy (two-pack)

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Paints for steel structures****Part 8: Vinyl paints—Primer, high-build and gloss**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out requirements for vinyl paints to be used as primers, intermediate coats and finishing coats and intended for the protection of steel against exterior atmospheric corrosion. Paints specified in this Standard are those described under Paint References 7, 16 and 23 in AS 2312.

Normally applied by conventional air or airless spray, vinyl primers, vinyl high-build paints and gloss finishing paints are intended for protection of steel against corrosion in damp or wet areas, coastal/marine environments and areas of high humidity or industrial fallout.

The vinyl primer is usually supplied as light grey or red oxide and is intended as a base coat for vinyl finishing coats for direct application to bare steel or as a tie coat over a zinc primer.

The high-build vinyl paints are available in a range of colours including micaceous iron oxide (MIO) pigmentation and are intended for use as intermediate or finishing coats where extra protection is required.

The vinyl gloss paints are primarily intended as finishing coats over vinyl primer or high-build vinyl. The vinyl high-build and gloss may also be used over other primers. Although available in a range of colours, early chalking and loss of gloss is characteristic but this has no significant effect on the protective properties of the coating.

NOTES:

- 1 These paints may be used for paint systems MP3-A, MP3-B, MP3-C, MP5-C, MP5-G, MP5-L, LP1-C, LP1-G, GZLP-H, MSZLP-E described in AS 2312.
- 2 Appendix A provides recommendations 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 vinyl paints is given in Appendix B.
- 4 Alternative methods for determining compliance with this Standard are contained 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.

NOTE: In New Zealand, NZS 2154 should be referenced in lieu of AS 2310.

1.3.1 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.

1.3.2 Vinyl primer, high-build vinyl paint, gloss vinyl paint—paints consisting essentially of a solution of vinyl copolymer resin, vinyl chloride/acetate or vinyl isobutyl ether, suitable plasticizers, modifying resin (5 percent maximum) with appropriate pigments, stabilizers and solvents.

1.4 SAFETY PRECAUTIONS Adequate ventilation shall be maintained during the application and drying of vinyl paints.

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

As the paint is intended for industrial use, reference to the appropriate regulatory requirements is necessary, particularly in relation to packaging, labelling and use of the product.

NOTE: Appendix B provides further information on safety precautions.