AS/NZS 3750.9:2009

Australian/New Zealand Standard™

Paints for steel structures

Part 9: Organic zinc-rich primer

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CH-003, Paints and Related Materials. It was approved on behalf of the Council of Standards Australia on 16 March 2009 and on behalf of the Council of Standards New Zealand on 27 March 2009.
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The following are represented on Committee CH-003:

AUSTROADS
Australasian Corrosion Association
Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
Business New Zealand
Engineers Australia
Institution of Professional Engineers New Zealand
Master Painters Australia
Master Painters New Zealand Association
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

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Part 9: Organic zinc-rich primer

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH-003, Paints and Related Materials, to supersede AS/NZS 3750.9:1994.

The objective of this Standard is to provide requirements for organic zinc-rich priming paint intended for use on iron and steel structures. It forms part of a series of product standards for paints referred to in AS/NZS 2312, *Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings*. This edition has been reformatted and takes account of revisions to Standards such as AS/NZS 2312 and the AS 1580 series of test methods.

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)
3750	Paints for steel structures
3750.1	Part 1: Epoxy mastic (two-pack)—For rusted steel
3750.2	Part 2: Ultra high-build paint
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)
AS/NZS	Paints for steel structures
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
3750.8	Part 8: Vinyl paints—Primer, high-build and gloss
3750.9	Part 9: Organic zinc-rich primer (this Standard)
3750.10	Part 10: Full gloss epoxy (two-pack)
3750.11	Part 11: Chlorinated rubber—High-build and glass
3750.12	Part 12: Alkyd/micaceous iron oxide
3750.13	Part 13: Epoxy primer (two-pack)
3750.14	Part 14: High-build epoxy (two-pack)
3750.15	Part 15: Inorganic zinc silicate paint
3750.16	Part 16: Waterborne primer and paint for galvanized, zinc/aluminium alloy-coated and zinc-primed steel
3750.17	Part 17: Etch primers (single pack and two-pack)
3750.18	Part 18: Moisture cure urethane (single-pack) systems
3750.19	Part 19: Metal primer—General purpose
3750.20	Part 20: Anticorrosive metal primer—Solvent-borne—Lead and chromate free
3750.21	Part 21: Undercoat—Solvent-borne
3750.22	Part 22: Full gloss enamel—Solvent-borne
3750.23	Part 23: Semi-gloss enamel—Solvent-borne

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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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for an organic zinc-rich primer intended to protect iron and steel against atmospheric corrosion. It is suitable for application by brush, or spray.

NOTES:

1 Type 2 paint specified in the Standard is referred to in AS/NZS 2312 as Paint Reference No. C02.

2 Type II paints may be used as detailed for systems ACC2, ACC2-6, EHB4, EHB6, PSL1, PUR4, PUR5 and PUR7 in AS/NZS 2312.

3 Appendix A contains recommendations and advice on information that should be provided by the purchaser at the time of enquiry or order.

4 Additional information on the use and application of organic zinc-rich primer is provided in Appendix B.

1.2 REFERENCED DOCUMENTS

A list of the documents referred to in this Standard is contained in Appendix C.

1.3 DEFINITIONS

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

1.3.1 Organic zinc-rich primer

A material consisting essentially of a dispersion of metallic zinc dust in an organic medium.

1.4 CLASSIFICATION

Organic zinc-rich primers shall be classified as follows:

(a) Type 1—a single-pack primer.

(b) Type 2—a multi-pack primer that hardens by reaction of its constituents after mixing.

1.5 COLOUR

The colour of the product is usually characteristic of the zinc dust pigment, but to overcome the difficulty of differentiating between a coat of paint and a freshly prepared surface, the product may contain suitable tinting pigments.

NOTE: The product may have differing shades according to the application conditions.