AS/NZS 3750.3:2008

Australian/New Zealand Standard™

Paints for steel structures

Part 3: Heat resisting—Exterior

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 19 March 2007 and on behalf of the Council of Standards New Zealand on 3 March 2007.
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The following are represented on Committee CH-003:

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Australasian Corrosion Association
Australian Paint Approval Scheme
Australian Paint Manufacturers' Federation
Australian Pipeline Industry Association
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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 3750.3:1994. 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*.

See AS/NZS 3750.0 for other published Standards is this series.

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 sets out requirements for single- and multi-component primers and finishing coats for the protection of steel against atmospheric corrosion at elevated temperatures. Paints specified in this Standard include those described as Paint References C27, C31 and C35 in AS/NZS 2312.

Temperature resistance, colour range, gloss level and drying times vary significantly according to type. These products can normally be applied by brush, roller or spray although airless spray application is not suitable for some types. Abrasive blast cleaning is the preferred method of surface preparation, however hand or power tool cleaning may be acceptable for some products that are exposed at lower temperatures. Some products require the application of heat to achieve their full resistance properties.

NOTES:

1 These paints may be used for the appropriate systems detailed in AS/NZS 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 heat resisting paints is contained in Appendix B.

4 Some products covered by this Standard may be particularly prone to discolouration or damage due to atmospheric contamination where there are acid or alkaline conditions, and the manufacturer's advice should be sought.

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 Type 1 product

A single-component silicone acrylic paint, classed as Paint Reference C27 in AS/NZS 2312, which is available in a limited colour range and intended as a finishing coat over inorganic zinc silicate primer. It provides a decorative appearance with heat resistance to a continuous temperature of 200°C and for limited periods at 230°C.

1.3.2 Type 2 product

A single-component coumarone indene/oleoresinous aluminium paint, intended as a finishing coat for application in two coats over oleoresinous zinc dust primer (see Clause 1.3.4), providing weather resistance and heat resistance to 230°C.

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