

AS 4089—1993

Australian Standard[®]

**Priming paint for steel—Single
component—General purpose**

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Australasian Corrosion Association

Australian Paint Manufacturers Federation

Austrroads

Government Paint Committee

Railways of Australia Committee

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PREFACE

This Standard was prepared by the Standards Australia Committee on Paints and Related Materials, under the direction of the Multitechnics Standards Policy Board, to provide a Standard for single-component, general purpose priming paint for steel surfaces.

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STANDARDS AUSTRALIA

Australian Standard

Priming paint for steel—Single component—General purpose

1 SCOPE This Standard sets out requirements for single-component, general purpose priming paints for the protection of iron and steel against atmospheric corrosion. The primers are intended to be applied by brush and roller or by spray. The Standard deals with primers that are surface-dry within 6 h, and may be overcoated after 16 h.

The primer is intended as a first coat on steel, under alkyd topcoats such as Types 17, 19 and 20 paints, and water-borne topcoats such as Type 21 paint, as specified in AS 2312.

NOTES:

- 1 Solvent-borne primers as described in this Standard comply with the requirements of Types 4 and 5 paint, in accordance with 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 steel primers is given in Appendix B.
- 4 Alternative means for determining compliance with this Standard are given in Appendix C.

2 REFERENCED DOCUMENTS A list of the documents referred to in this Standard is contained in Appendix D.

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

3.1 Type 1 primer (Type 5 paint, AS 2312)— an alkyd primer designed to provide corrosion protection for steel when applied to a dry film thickness of 35-50 μm .

3.2 Type 2 primer (Type 4 paint, AS 2312)— a high-build alkyd primer designed to provide corrosion protection for steel when applied to a dry film thickness of 75-100 μm in a single coat.

3.3 Type 3 primer— a water-borne primer that meets the requirements of either Type 1 or Type 2 primer.

4 SAFETY REQUIREMENTS As these primers are intended for industrial use, reference to the appropriate regulatory requirements is necessary, particularly for the packing and labelling of the product.

NOTE: Appendix B provides additional information on safety precautions.

5 MATERIAL REQUIREMENTS

NOTE: Table 1 provides a listing of requirements for paint to this Standard.

5.1 Composition The primer may be either solvent-borne or water-borne and shall not be classed as a Schedule 1 or Schedule 2 paint, as defined in the Uniform Paint Standard issued by the National Health and Medical Research Council.

5.2 Conditions of test Unless otherwise specified in this Standard, the following test conditions apply:

- (a) The test panel material is steel, complying with AS 1580.104.1. Where reference panels are required, they should be made of the same material and be prepared by identical methods as the test panels.
- (b) The size of test panels is specified in Table 1 for the appropriate test.
- (c) The method of application for test purposes is by spray.
- (d) The dry film thickness shall be 35-50 μm for a Type 1 primer, 75-100 μm for a Type 2 primer, and of appropriate thickness for Type 3 primer.
- (e) Conditions for testing are in accordance with AS 1580.101.5.
- (f) Conditions for air-drying are in accordance with AS 1580.101.1.

5.3 Liquid paint

5.3.1 Condition in container When examined in accordance with AS 1580.103.1 at the time of delivery from the manufacturer or supplier, the paint shall be free from gel, coarse particles, skin and foreign matter. It shall readily yield a product of uniform consistency when manually incorporated in accordance with AS 1580.211.2.

5.3.2 Volume solids When determined in accordance with AS 1580.301.2, the volume solids content shall be within 5 percent of the value of the product specification.