

Australian Standard[®]

**Paints for equipment including
ships**

**Part 1: Solvent-borne—Interior
and exterior—Full gloss enamel**

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Australasian Corrosion Association
Australian Paint Manufacturers Federation
Austroads
Confederation of Australian Industry
Department of Defence
Government Paint Committee
National Association of Testing Authorities, Australia
Railways of Australia Committee
Retail Traders Associations of Australia
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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 Board, to supersede AS K126—1964, *Full gloss enamel, oil and petrol resistant*.

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STANDARDS AUSTRALIA

Australian Standard

Paints for equipment including ships

Part 1: Solvent-borne—Interior and exterior—Full gloss enamel

1 SCOPE This Standard sets out requirements for full gloss enamel, solvent-borne paints for ships and equipment that are intended to be applied, as supplied, by brush, roller or spray.

This Standard applies to paints intended for the topcoating of primed and undercoated metal surfaces with a full gloss film that will provide resistance to weathering, washing and intermittent contact with petrol or mineral oils. Typical applications include machinery and the superstructures of ships.

2 REFERENCED DOCUMENTS A list of documents referred to in this Standard is given in Appendix A.

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

3.1 Commercial colour match—where the colour of the test sample appears to be the same as a reference sample when separated by a minimum of 10 cm and viewed under specified conditions.

3.2 Frying—undesirable wrinkling and crazing caused by the interaction of the solvent component of a topcoat with an underlying film.

3.3 Working up—any lifting, mixing, dissolution, incorporation, or other interaction observed between two paint films during the application of the overlying film.

NOTE: Such interaction is indicative of deterioration of the underlying coating during its curing period, especially if insufficient time has been allowed between coating applications (see also Clause 4.5.2).

4 MATERIAL REQUIREMENTS

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

4.1 Composition The paint shall consist essentially of pigments, extenders, alkyd resin binder and drying oils, and volatile solvents such as a mineral turpentine or mineral spirits. The product shall meet the requirements of a Class III paint as defined in the Uniform Paint Standard issued by the National Health and Medical Research Council.

4.2 Conditions of test Unless otherwise indicated, the requirements specified in this Standard apply to products that are tested under the following conditions:

- (a) The test panel material is tinsplate as specified in AS 1580.104.1. Where reference panels are required, they shall be composed of the same material as the test panel and shall be prepared by identical methods as the test panel.
- (b) The size of test panels is as specified in Table 1 for the appropriate test method.
- (c) The method of test paint application is by brush.
- (d) The spreading rate of the paint is between 15 m²/L and 18 m²/L.
- (e) Environmental conditions for testing are in accordance with AS 1580.101.5.
- (f) Environmental conditions for air-drying are in accordance with AS 1580.101.1.

4.3 Liquid paint

4.3.1 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 re-incorporated in accordance with AS 1580.211.2.

4.3.2 Fineness of grind When determined in accordance with AS 1580.204.1, the fineness of grind shall be less than or equal to 15 µm.

4.3.3 Volume solids Where a volume solids requirement is specified, it shall be determined and expressed in accordance with AS 1580.301.2.

4.3.4 Susceptibility to formation of skin When the paint is tested in accordance with AS 1580.203.1, it shall not exhibit any skin formation.

4.3.5 Storage stability When housed under cover in the original unopened container at ambient temperatures for up to 18 months from the date of manufacture, and examined in accordance with AS 1580.103.1, the paint shall exhibit—

- (a) a settlement rating of no less than 6, as defined in AS 1580.211.1; and
- (b) a uniform consistency free of lumps, gel, sediment and other visible defects after stirring, as described in AS 1580.211.2.

The container shall not exhibit rust or other signs of corrosion on its interior surface.