



Transport
Roads & Maritime
Services

Test method T831

Compatibility of paint with linseed oil and suitability as a priming coat

NOVEMBER 2012



Revision Summary

| Ed/Rev Number | Clause Number | Description of Revision | Authorisation | Date |
|---------------|---------------|--|---------------|---------------|
| | | Reformatted and Revision Summary Added | D.Dash | Jun 2001 |
| Ed 2/ Rev 0 | All | Reformatted RMS template | J. Friedrich | November 2012 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T831 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T831

Compatibility of paint with linseed oil and suitability as a priming coat

1. Scope

This test method sets out the procedure for the visual assessment of the compatibility of paint with linseed oil and its suitability for use as a priming coat on timber not previously painted when applied by brush or spray gun.

2. Apparatus

- (a) Good quality pure bristle brushes of a type suitable for the material under test.
- (b) Suitable spraying equipment in good order and condition of a type operating at an air pressure between 410 kPa and 690 kPa, with a suitable moisture trap in the air line.
- (c) Tinplate panels, approximately 300 mm x 100 mm.
- (d) Hardwood panels approximately 150 mm long by 100 mm wide, cut from dressed timber approximately 15 mm thick.

3. Test Conditions

Carry out the test at a temperature of $23 \pm 2^{\circ}\text{C}$.

4. Procedure

- (a) **Compatibility**
 - (i) Thin down a portion of the paint with 30% raw linseed oil (by volume) and apply it to the tinplate by brush.
 - (ii) Examine the paint for freedom from defects, smoothness, stringiness and gelling as it is drying.
- (b) **Mixing**
 - (i) Thin down a portion of the paint with 15% raw linseed oil (by volume) and allow to stand for 24 hours.
 - (ii) Examine the mixture for separation of the paint from the linseed oil.
- (c) **Brushing**
 - (i) Apply a coat of paint to the panel held firmly in a vertical position by criss cross strokes "crow nesting" and level up the coat with vertical strokes using the tip of the brush.
 - (ii) Allow the paint to become surface dry and apply a second coat of paint in the manner outlined above.
 - (iii) Allow the paint to dry hard and examine for smoothness and freedom from defects, such as brush marks, sagging, floating, and excessive "orange peel".
- (d) **Spraying**
 - (i) Apply three coats of paint by the normal trade technique appropriate to the material allowing the paint to become surface dry between coats.
 - (ii) Allow the paint to dry hard and examine for smoothness and freedom from defects, such as sagging, floating and excessive "orange peel".

5. Reporting

Report and defects noted, otherwise report as free from defects.