



Test method T872

Water borne road marking paint (early water sensitivity)

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 T872 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T872

Water borne road marking paint (early water sensitivity)

1. Scope

The aim of this test is to determine the drying time required before a water borne road marking paint is capable of resisting water immersion. A drawdown of paint is immersed fully in water after a specified drying time and assessed for defects.

2. Apparatus

- (a) Beaker of such a size as will permit immersion of the test panel in water for about 100mm of its length.
- (b) Glass panels approx. 200 mm x 100mm.
- (c) Draw-down paint applicator.

3. Procedure

- (a) Set the blade of the paint applicator to give a wet film thickness of $375 \pm 25 \mu\text{m}$ on the test panel.
- (b) Apply a paint film uniformly along the whole length of the panel.
- (c) Note the time of application.
- (d) Check the wet film thickness of the paint using a wheel gauge.
- (e) Allow the paint to dry at $23 \pm 3^\circ\text{C}$ and $60 \pm 15\%$ relative humidity in a well ventilated room.
- (f) After 1 hour or as specified, stand the panel in a beaker so that approx. 100mm of its length is immersed in water at $23 \pm 3^\circ\text{C}$.
- (g) After 20 minutes immersion examine the water soaked area of paint film for defects as set out below.

ASSESSMENT OF DEFECTS: Defect Rating

Rate the test panel according to the following:

Rating	Defect
1	Paint dissolves
2	Blisters Size 5 density (note). Paint wet under surface skin.
3	Blisters Size 3-4 density max.4 (note) Paint film soft under surface skin.
4	Blisters Size 2 density max.3 (note). Paint film firm.
5	No blisters. Paint film firm.

4. Reporting

Report the following information for each paint tested.

- (a) Temperature and relative humidity.
- (b) Wet film thickness measurements.
- (c) Drying time.
- (d) Defect rating for each drying time tested.