



Transport
Roads & Maritime
Services

Test method T1225

Mixing properties of adhesives for raised
pavement markers

NOVEMBER 2012



Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
		Reformatted and Revision Summary Added	D.Dash	June 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 T1225 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T1225

Mixing properties of adhesives for raised pavement markers

1. Scope

This test is applicable to adhesives (of paste like consistency) used for bonding raised pavement markers to road surfaces. The time required to satisfactorily blend the adhesive components under standard conditions is taken as a measure of the mixing properties of the adhesive.

2. Apparatus

The following apparatus is required:

- (a) Cabinet or controlled temperature room, capable of maintaining the specified temperature to within $\pm 2^{\circ}\text{C}$
- (b) Polyethylene mixing plate-approx. 300 mm square
- (c) Two spatulas of suitable size
- (d) Stop watch-accurate to 1 second
- (e) Balance-accurate to 0.1 g
- (f) Hand protection-gloves or barrier cream
- (g) Fume cupboard-for manual mixing

NOTE: The manufacturer should provide density values for all components. In the absence of such information, the following values can be adopted.

Liquid components	1.0 gm/mL
Paste components	1.5 gm/mL
Fillers	2.5 gm/mL

3. Procedure

- (a) Condition each component at $23 \pm 1^{\circ}\text{C}$ for at least four hours and stir it to uniform consistency
- (b) Condition the components, mixing board, and spatula to the specified temperature
- (c) Weigh out, directly onto the mixing plate, sufficient of each component, in the correct proportions, to give 40-60 mL of mixed adhesive
- (d) Start the timing device, and using both spatulas, commence mixing
- (e) Record the time taken to satisfactorily mix the whole. If this time is longer than 2 min, the condition of the part mixed material two minutes after commencement of mixing shall be recorded
- (f) The resultant adhesive shall be of a uniform grey colour without black or white streaks. There shall be no evidence of hard setting of any fillers, and any settled components shall be capable of being readily dispersed by hand mixing

4. Reporting

The report shall include the following:

- (a) The identification of the manufacturer and of the type of adhesive being tested
- (b) The mixing time in minutes and seconds (to the nearest 5 seconds) and the condition of the mixed material after two minutes