



Transport
Roads & Maritime
Services

Test method T839

Unreacted components in set resin

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	D.Dash	November 2012

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

The most recent revision to Test method T839 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T839

Unreacted components in set resin

1. Scope

This test method sets out the procedure for determining whether the components of a chemical setting resin have reacted completely during a predetermine curing period, and if any of the components may be leached out by the action of water.

2. Apparatus

- (a) 600 mL beaker and cover glass
- (b) 12 mm diameter thick-walled P.V.C. piping.

3. Procedure

- (a) Prepare a suitable amount of compound to be tested by mixing thoroughly according to the instructions and in the proportions recommended by the manufacturer.
- (b) Pour the mixed material into a short section (approx. 100 mm - 150 mm) of P.V.C. thick walled tubing stoppered at one end.
- (c) Cure for 7 days at a temperature of 20-25°C and after curing remove the resin by cutting the P.V.C. tubing lengthwise.
- (d) Cut the cured compound into 50 mm lengths and determine the mass.
- (e) Place the lengths of cured compound in a beaker containing approximately 250 mL of water, cover with a watch glass and boil for 2 hours.
- (f) Cool and remove the sections of compound from the water and examine the water and sides of the beaker for contamination by any material bled from the test pieces.
- (g) Examine the test pieces for cracking, checking and any other apparent change.
- (h) Dry each piece and determine the mass. Express the gain or loss in mass as a percentage of the original mass of the pieces.

4. Reporting

Report the percentage loss or gain in mass of the test pieces together with any noticeable contamination of the water or the sides of the beaker due to leaching.