Transport Roads & Maritime Services

NSW GOVERNMENT

Test method T807

Fineness of paint (Sieve test)

JULY 2012

Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
Ed 1/ Rev 1		Reformatted and Revision Summary Added	D.Dash	Jun 2001
Ed 1/ Rev 2	All	Reformatted and Revision Summary added	D.Dash	July 2012

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

The most recent revision to Test method T807 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T807

Fineness of paint (Sieve test)

1. Scope

This test method sets out the procedure for assessing the fineness of a paint by washing through a sieve with the aid of appropriate thinners.

2. Apparatus and Reagent

(a) Glassware consisting of 300 mL and 1000 mL beakers,

(b) Stirring rods.

(c) Sieve with wire mesh of aperture sizes 75μm and 300μm, having frames approximately 100 mm in diameter.

(d) A balance of not less than 200 g capacity, accurate and readable to 10 mg.

(e) Appropriate thinners and squeeze bottle.

(f) A thermostatically controlled oven with good air circulation, capable of maintaining a temperature of 102°C to 108°C.

(g) A soft haired, short nap artist brush.

3. Procedure

(a) Wash the sieves with the thinners, dry in the oven, cool and weigh to the nearest 10 mg.

(b) Place in a 300 mL beaker approximately 100 mL of paint and quickly obtain the mass to the nearest 0.1 g, dilute with thinners and stir to mix.

(c) Couple the 300 μm and 75 μm sieves together. Pour the diluted paint through the sieves and allow the paint to drain into a 1000 mL beaker. Wash at the 300 mL beaker with thinners and pour through the sieves.

(d) Wash each sieve with thinners, gently breaking up any coagulation of paint with the artist brush until all the paint has been washed through and only pigment or contaminating material remains.

(e) Dry the sieves in the oven, cool and weight to the nearest 10 mg.

4. Calculation and Report

Calculate the percentage of residue held by each sieve and report to the nearest 0.1%.