



**Transport**  
Roads & Maritime  
Services

# Test method T1155

Accelerated weathering test for  
preformed joint filler revision

NOVEMBER 2012



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## 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 T1155 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

# Test method T1155

## Accelerated weathering test for preformed joint filler revision

### 1. Scope

This test method sets out the procedure for determining the weathering resistance of joint filler materials. The test method is adapted from the American Society for Testing and Materials Designation D545-67.

### 2. Apparatus

- (a) A thermostatically controlled oven with good air circulation capable of maintaining a temperature within the range 74°C to 76°C.
- (b) A refrigerated box capable of being maintained at between -10°C and -20°C.
- (c) A thermometer indicating the range 0°C to 100°C in 1°C intervals.
- (d) A suitable metal container (at least 100 mm deep and at least 120 mm in diameter).

### 3. Preparation

The test specimens are to be freshly cut to 100 mm by 100 mm.

The specimens of self-expanding cork joint filler (120 mm by 120 mm) are to be first boiled in water for one hour, removed from the water and allowed to cool to room temperature for 15 minutes before being cut to 100 mm by 100 mm.

### 4. Procedure

- (a) Expose two specimens to a temperature of 75°C ± 1°C in an oven for a period of seven days and then immerse in water at room temperature for 24 hours.
- (b) Place the specimens on edge in the metal container and hold them securely in position.
- (c) Add water to a depth equal to half the depth of the specimens.
- (d) Place the container in a freezing unit at a temperature of between -10°C and -20°C until water has frozen.
- (e) Upon completion of the freezing cycle, remove the container from the freezing unit and partially immerse it in water at a temperature maintained between 20°C and 40°C.
- (f) The first cycle is completed when the ice surrounding the specimen has melted entirely.
- (g) Carry out steps (d) to (f) for ten cycles.
- (h) Remove the specimens from the container and allow them to stand in air at room temperature for 48 hours.
- (i) Examine the test specimens for evidence of disintegration.

### 5. Reporting

- (a) Report any evidence of disintegration.