



Test method T1154

Resistance to heat degradation of closed cell foam joint filler

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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 T1154 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T1154

Resistance to heat degradation of closed cell foam joint filler

1. Scope

This test method sets out the procedure for determining the resistance of closed cell foam joint filler to degradation from contact with hot poured joint sealant.

2. Apparatus

- (a) Cement mortar test blocks as described in Test Method T1172, having one flat face measuring 50 ± 0.15 mm square.
- (b) A suitable glass plate on which the cement mortar test blocks can be assembled.
- (c) Masking tape (25 mm wide).
- (d) A razor sharp blade.
- (e) Hot poured joint sealant conforming to M.R. Form No. 899.
- (f) Heating apparatus as described in Test Method T1170.
- (g) Suitable release agent (e.g. Potash soap.)

3. Preparation

- (a) Place the sample of closed cell foam filler measuring 120 mm square on a flat surface and at one edge cut a strip 50 mm long and 25 mm wide with a razor sharp blade.

4. Procedure

- (a) Apply a suitable release agent to one face of each of the cement mortar blocks.
- (b) Place the strip of closed cell foam filler between the treated flat faces of the cement mortar blocks. Stand the cement mortar blocks on the glass plate and adjust the position of the filler so that it is contacting the glass plate.
- (c) Apply sufficient pressure to the cement mortar blocks so that there is intimate contact between the blocks and the strip of closed cell foam filler. Wrap masking tape round the blocks and the closed cell foam filler to form a reservoir 25 mm deep.
- (d) Heat 250 g of hot poured joint sealant to 190°C as described in Test Method T1170 and rapidly fill the reservoir described in (c) with the sealant.
- (e) Allow the test piece to stand 24 hours at 16-25°C.
- (f) Remove the masking tape and concrete blocks from the filler and sealant.
- (g) Place the filler/sealant combination on a flat surface and with a razor sharp blade, cut through the sealant and filler. Examine the filler/sealant interface and measure the amount of penetration (in millimetres) of the sealant into the filler.

5. Reporting

- (a) Report the amount of penetration (to the nearest millimetre) of the sealant into the closed cell foam filler.