COLD POUR CRACK SEALANT – ASH

1.0 SCOPE

1.1 This test method describes the procedures for determining the percent ash of rubberized asphalt emulsion crack sealant.

2.0 APPARATUS AND PROCEDURES

2.1 Apparatus:
- Muffle furnace capable of operating at 760 - 1085◦C
- Porcelain crucible, about 30 ml capacity, with cover
- Desiccator, Oven and Balance as for solids content

2.2 Place about 5 grams of emulsion sample in a tared ignited crucible and immediately cover and weigh to an accuracy of 0.001 gram. Remove cover and dry in an oven at 110◦C. Replace the cover and heat slowly in a flame or cold muffle furnace to drive off volatile organic matter. Partially uncover the crucible to permit the carbonaceous matter to burn off. Allow decomposition to proceed for 8 to 12 hours at 760 - 1085◦C or until ashing is complete. Remove the crucible, contents and cover from the furnace, place in a desiccator, allow to cool to room temperature and weigh.

3.0 CALCULATION AND REPORT

3.1 Calculate the % ash as follows:

$$\% \, ash = \frac{C - A}{B - A} \, x \, 100$$

Where:

A = Weight of crucible and cover
B = Weight of crucible, cover and sample
C = Weight of crucible, cover and ash

3.2 Report the percent Ash.