

11 February 2002

File: 01094a.GRA
Project: 16325-43-01

EverCrete Engineered Solutions Canada Inc.
160 Crescent Road West
Qualicum Beach, B.C.
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Attention: **Bob Pascoe**

Re: **Concrete Exposure to Hot Ammonium Sulfate**

Two (2) treated concrete samples were submitted for exposure tests to 30% ammonium sulfate solution at 77° C. The samples were labelled "E" and "E + TS".

CONCLUSION

There was no visible evidence of any physical damage to either of the samples. Both concrete surfaces were discolored to a paler shade of gray.

RESULTS

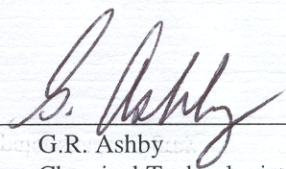
Technique:

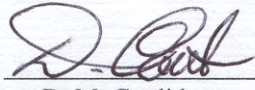
Aluminum pans with the bottoms cut out were attached to the concrete surfaces with silicone adhesive so as to form a reservoir. The total area of concrete exposed was about 10 in². Sealed jars each containing 40 ml of 30% ammonium sulfate were heated in an oven to 77° C then poured into each of the reservoirs. The solution was agitated by rocking the concrete slab and after a few minutes when the solution had cooled the solution was mopped up with paper towels then rinsed with distilled water. The surface of the concrete slabs were examined visibly and with a stereomicroscope at 25X magnification.

Observations:

Visual – Concrete surfaces discolored to a paler shade of gray.

Stereomicroscope – Both surfaces appeared similar. No evidence of damage was observed.

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