

Reflective Cracking Testing Notes

Date: March 06, 2017

Project: Reflective Cracking Indoor Phase 5

Temperature:

Ambient temp: 41.7F

Interface temp: 28.5F

Working Hours: 7:00 AM – 3:30 PM

Sub-Contractor(s): N/A

Equipment: N/A

Reflective Cracking Testing Notes:

Cycle count: 324.

South test item observations:

- Outer vertical edge:
 - Thin crack through SG6-S-0 and SG6-S-1.5. Crack stopped at SG6-S-3 as shown in Figure 1.
 - Ice formation over SG6-S-0 and SG6-S-1.5.
- Joint surface area:
 - Start from the South outer edge and work toward the inner edge, none of the surface gauges show evidence of a crack as shown in Figures 2, 3, 4 and 5.
- Inner vertical edge:
 - No evidence of a crack on inner vertical edge as shown in Figure 6.

North test item observations:

- Outer vertical edge:
 - Thin crack through outer vertical edge. SG6-N-0, SG6-N-1.5 and SG6-N-3.
 - Bottom up crack appears to have propagated through the vertical edge as shown in Figure 7.
- Joint surface area:
 - Start from the North outer edge and work toward the inner edge. Crack appears to have propagated up to SG5-N-3.
 - Sporadic surface cracks from SG4-N-3 through SG3-N-3 as shown in Figures 8, 9, 10 and 13.
 - SG5-N-3 and SG4-N-3 read open.
 - No crack on SG2-N-3 as shown figure 11.
- Inner vertical edge:
 - No crack on the inner vertical edge (see Figure 12).



Figure 1. Crack through SG6-S-0 & SG6-S-1.5.



Figure 2. SG5-S-6, no crack. No crack on SG6-S-3, SG6-S-4.5 and SG6-S-6.



Figure 3. SG4-S-6, no crack.



Figure 4. SG3-S-6, no crack.

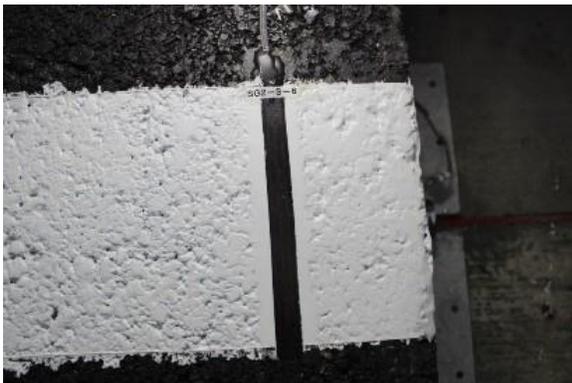


Figure 5. SG2-S-6, no crack.



Figure 6. SG1-S-0 through SG1-S-6, no crack.



Figure 7. SG6-N-0, SG6-N-1.5 & SG6-N-3 bottom up crack complete.



Figure 8. SG5-N-3, crack propagation from vertical edge to SG5 surface.



Figure 9. SG4-N-3, incomplete crack.



Figure 10. SG3-N-3, incomplete crack.



Figure 11. SG2-N-3, no crack.



Figure 12. SG1-N-0, SG1-N-1.5 & SG1-N-3, no crack.

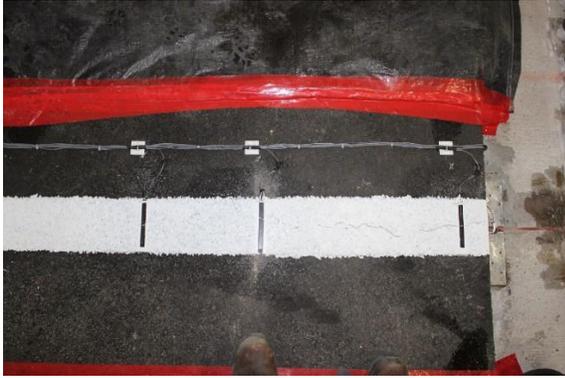


Figure 13. Top view of North test item surface crack.