CMT TECHNICAL SERVICES

January 29, 2025

Roman Cement, LLC
1475 Princeton Ave
Salt Lake City UT 84105

ASTM C672 - Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals

Project No.	3819	Cement Content:	5.3
Project Name:	Lab Services	Water-cement Ratio:	0.5
Cast Date:	9/7/2024	Slump:	4"
Set ID:	RC-1 (Greymont Dust)	Air:	6.0%
Lab Number:	37572		
Solution/Concentrate:	Calcium Chloride 40g/L		
Admixtures:	AT-30 (65 mL), Quad 842 (63 mL), Recover (21 mL), EXP 950 (85 mL)		

Visual Ratings

5 Cycles: Rating 1	•Specimens showed very slight scaling. All faces have little to no scaling. No coarse aggregate visible.
10 Cycles: Rating 1	•Specimens showed very slight scaling. All faces showed minimal scaling. No coarse aggregate visible.
15 Cycles: Rating 2	•Specimens showed slight to moderate scaling. Two of the four main faces showed moderate scaling. The other faces showed slight scaling. No Coarse aggregate visible.
25 Cycles: Rating 3	•Specimens showed moderate scaling. Two of the four main faces showed moderate scaling, with some coarse aggregate visible. The other two main faces showed slight scaling, with little to no coarse aggregate showing.
50 Cycles: Rating 4	•Specimens showed moderate to sever scaling. Two of the four main faces had coarse aggregate visible throughout the entire face. The other two main faces only had moderate scaling, where only some coarse aggregate is visible.

For any additional information please reference the concrete mix design.

Sincerely,

Belinda Torres
Lab Manager

Pictures of all faces and ends after 50 Cycles.

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ASTM C672 - Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals

Project No.	3819	Cement Content:	6.5 Bags
Project Name:	Lab Services	Water-cement Ratio:	0.47
Cast Date:	9/7/2024	Slump:	4"
Set ID:	RC-2	Air:	5.50%
Lab Number:	37572		
Solution/Concentrate:	Calcium Chloride 40g/L		
Admixtures:	AT-30 (60 mL), Quad 842 (107 mL), Recover (28 mL)		

Visual Ratings

5 Cycles: Rating 2	•Specimens showed slight to moderate scaling. Two of the four main faces showed moderate scaling. The other two faces showed slight scaling. No coarse aggregate visible.
10 Cycles: Rating 3	•Specimens showed moderate scaling. Two of the four main faces showed moderate scaling, with some coarse aggregate visible. The other two faces showed slight scaling
15 Cycles: Rating 3	•Specimens showed moderate scaling. Two of the four main faces showed moderate scaling, with coarse aggregate visible almost across the entire face. The other two faces showed slight to moderate scaling, with minimal coarse aggregate visible.
25 Cycles: Rating 4	•Specimens showed moderate to severe scaling. Two of the main faces had coarse aggregate visible throughout the entire faces. The other two faces showed moderate scaling, where only some coarse aggregate is visible.
50 Cycles: Rating 5	•Specimens showed severe scaling. Coarse aggregate was visible on all faces. Two of the main faces have more scaling across the entire face while the other two still have coarse aggregate visible across the entire surface but not as much scaling.

For any additional information please reference the concrete mix design.

Sincerely,

Belinda Torres
Lab Manager

Pictures of all faces and ends after 50 Cycles.