Canadian Council of Independent Laboratories

Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals ASTM C 672/C 672M-12

APPARATUS / SECTION 4

1.	Freezer Cabinet/room:
	 Of suitable size capable of lowering the temperature of the specimen to -18 ± 3° C (0 ± 5° F) within 16 to 18 h? Capable of maintaining designated temperature with a full load of specimens?
2. 3. 4. 5. 6. 7.	Molds: Conforming to the requirements of Practice C192/ C 192M?
PROP	ORTIONING AND MIXING / SECTION 5
1.	Those factors determining the physical characteristics of the concrete and its ingredients shall be those appropriate for the purposes for which the test is to be made?
	Example: Air content Cement factor Slump Water-to-cement ratio
2.	Machine mix and test in conformance with applicable provisions of Practice C192/C 192M?
SPECI	MENS / SECTION 6
1.	Specimen Surface Area: Minimum of 0.045 m² (72 in.²) / Depth: Minimum of 75 mm (3.0 in.)?
	Fabrication of Specimen
2. 3.	Thinly spread a light coat of oil on inside of mould prior to fabrication? Specimen fabricated accordingly:
	- Mold filled with one layer?
	- Close voids by tapping mold? - Spade around the periphery with a trowel? - Level the surface with a wood strike-off board? - Use the strike-off board again to finish the surface after the concrete has stopped bleeding - 3 passes using a sawing motion? - Final finish completed by brushing surface with a medium-stiff brush?

September 2015 Page 1 of 2

Canadian Council of Independent Laboratories

SPECIMENS / SECTION 6 (CONTINUED)

Standard Test Method for Scaling Resistance of Concrete Surfaces Exposed to Deicing Chemicals ASTM C 672/C 672M-12

4	After the specimens have set, placed a dike about 25 mm (1 in.) wide and 20 mm high (¾ in.) along the surface perimeter?
	Note: Refer to Clause 6.2.4 for further details on dike material and fabrication?.
5	. Test specimens cut from hardened concrete in a structure:
	 Specimen not to be cut or damaged on the surface to be tested? Specimen not allowed to dry below the moisture condition of the structure from which the sample was taken?
CUR	ING / SECTION 7
1 2 3	Sheet not allowed to touch concrete surface?
4	
5	
PRO	CEDURE / SECTION 9
a.	Covered flat surface of specimen with approximately 6 mm of calcium chloride and water solution (100mL of solution contains 4 g of anhydrous calcium chloride)?
b	
С	
d	
е	
f.	Flush the surface thoroughly at the end of each 5 cycles?
	- Inspect visually?
	- Continue with test by replacing solution?
g	. Repeat for at least 50 cycles or more if necessary?
REP	ORT / SECTION 10
1	. Refer to ASTM C672 / Section 10
СОМ	MENTS:

September 2015 Page 2 of 2