

3.0.5.3 Use a 3/8"-12" plumb roller. Roll off excess seal using a paint pad to ensure an even application.

3.0.5.4 For decorative finishes, 24 hours after acid washing, a performance sealant is to be applied with the sealant by brush. Systems refer to product literature for detailed application instructions.

3.10. Concrete Finishes and Curing:

3.10.1 General Requirements:

3.10.1.1 Protect freshly placed concrete from premature drying and excessive water loss by means of:

3.10.2 Evaporation Control:

3.10.2.1 In hot, dry and windy weather, use Duxley by Screte Systems to protect concrete from rapid moisture loss before and during finishing operations. Apply according to manufacturer's instructions after wetting and bull floating, but prior to Duxing.

3.10.2.2 Begin curing after finishing concrete but not before the water has evaporated from concrete surface.

3.10.3 Curing Methods: Cure concrete by one of or a combination of the following methods:

3.10.3.1 Moisture Curing: Keep surfaces continuously moist for not less than 7 days with the following materials:

3.10.3.1.1 Water

3.10.3.1.2 Continuous water-cure spray.

3.10.3.1.3 Water saturated, absorbent cover kept continuously wet. Cover concrete surfaces and edges with a 12 inch lap over adjacent absorbent cover.

3.10.3.2 Moisture Retaining Cover Curbs:

3.10.3.2.1 Cover concrete surfaces with moisture-retaining cover for curing concrete placed in widest practical width, with sides and ends kept at least 12 inches and sealed by waterproof tape or adhesive.

3.10.3.2.2 Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3.10.3.3 Curing Compound:

3.10.3.3.1 Apply uniformly in continuous operation by power spray or roller according to manufacturer's instructions.

3.10.3.3.2 Avoid areas subjected to heavy rainfall within 3 hours after initial application.

3.10.3.3.3 Maintain consistency of coating and repair damage during the curing period.

3.11. Traffic Phase:

3.11.1 When applicable, apply traffic paint for striping and markings with mechanical equipment to produce uniform straight edges. Apply at manufacturer's recommended rates to provide a 15-mil minimum wet film thickness.

3.12. Field Quality Control Testing:

3.12.1 Employ a qualified, independent testing and inspection agency to verify materials, perform tests and submit test reports during acceptance phase.

3.12.1.1 The owner will employ a qualified testing and inspection agency to sample materials, perform tests and submit test reports during acceptance phase. Sampling and testing may include the following:

3.12.1.1.1 ASTM C 172, except modified for slabs to comply with ASTM C 29.

3.12.1.1.2 Slump: ASTM C 143, one test at point of placement for each compressive strength test lot no less than one test for each day's pour of each type of concrete. All test results will be reported when concrete consistency changes.

3.12.1.1.3 Air Content: ASTM C 231, pressure method; one test for each compressive strength test lot no less than one test for each day's pour of each type of air-entrained concrete.

3.12.1.1.4 Concrete Temperature: ASTM C 1064, one test hourly when air temperature is 40°F (4°C) or below and when 80°F (27°C) or above and one test for each of each type of compressive strength test lot.

3.12.1.1.5 Compressive Test Specimens: ASTM C 31, one set of four standard cylinders for each compressive strength test lot. One set of three standard cylinders for laboratory-cured test specimens except when field-cured test specimens are required.

3.12.1.1.6 Compressive-Strength Tests: ASTM C 39, one set for each day's pour of each concrete class consisting of 3 cu. yd. but less than 25 cu. yd., plus one set for each additional 50 cu. yd. Test one specimen at 7 days, two specimens at 28 days and retain one specimen in reserve for later testing if required.

3.12.1.1.7 When frequency of testing will provide fewer than five strength tests for a given class of concrete, conduct testing from at least five randomly selected batches or from each batch if fewer than five are used.

3.12.1.2 When the total quantity of a given class of concrete is less than 50 cu. yd., the Public Architect may waive strength testing if adequate evidence of satisfactory strength is provided.

3.12.1.3 When strength of field-cured cylinders is less than 85% of companion laboratory-cured cylinders, evaluate current operations and provide corrective procedures for positioning and curing the in-place concrete.

3.12.1.4 Strength level of concrete will be considered satisfactory if averages of sets of three consecutive strength test results equal or exceed specified compressive strength and no individual strength test result falls below specified compressive strength by more than 10%.

3.12.2 Test results will be reported as written to the Public Architect, concrete manufacturer and Contractor within 24 hours of testing. Reports of compressive strength tests shall contain the following information:

3.12.2.1 Proper identification, name and number.

3.12.2.2 Date of concrete placement.

3.12.2.3 Name of concrete testing agency.

3.12.2.4 Concrete type and class.

3.12.2.5 Location of concrete batch at paving.

3.12.2.6 Design compressive strength at 28 days.

3.12.2.7 Concrete mix proportions and materials.

3.12.2.8 Compressive breaking strength and type of test: 7-day and 28-day tests.

3.12.3 Non-destructive Testing: Dupont hammer, ultrasonic or another non-destructive device may be permitted but shall not be used as the sole basis for acceptance or rejection.

3.12.4 Additional Tests: The testing agency, when directed by the Public Architect, will make all tests of the concrete when test results indicate slough, air entrainment, concrete strength or other requirements have not been met. The testing agency may conduct tests to determine adequacy of concrete by core test cylinders complying with ASTM C 42, or by other methods as directed.

3.13. Repairs and Protection:

3.13.1 Remove and replace concrete paving that is broken, damaged or defective, or that does not meet the requirements of this Section.

3.13.2 Patch test areas when directed by the Public Architect when necessary to determine magnitude of repair or distress areas. Fill drilled cores in accordance with project notes with Portland cement concrete bedded to paving with epoxy adhesive.

3.13.3 Protect concrete from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillages of materials as they occur.

3.13.4 Maintain decorative concrete paving free of stains, discolorations, dirt and other foreign material. Sweep and wash concrete paving not more than 24 hours after placement for Substantial Completion inspection.

3.13.5 Remove all hard water stains (white, chalky buildup) from the top of the water surface with commercial grade lime.

4. Schedules

4.1. Paints etc:

4.1.1 Integral Color: Sun Buff

4.1.2 Impregnating: Flock 5x5 Cuprous Silica

4.1.3 Color Hardener: Sun Buff

4.1.4 Release Agent: Sand Buff

4.1.5 Seal Coat: "i.e. Sun Buff

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