

Revised February 11, 2011

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

SPECIAL PROVISION

P. I. NO. 0004634

SECTION 441.03— COLORED STAMPED CONCRETE SIDEWALK

Add the following to Subsection 441.3.05:

CONCRETE COLORING

MATERIAL – Dry-shake dust color hardener for sidewalk stamped concrete shall be as manufactured by Lambert Corporation, 20 N. Coburn Avenue, Orlando, Florida, 32805, Phone (800) 432-4746, under the name COLORBRITE, or approved equal. The specified color shall be “Tile Red.”

The manufacturer shall guarantee that his product is free of iron, silica, quartz, sand, or other fillers, and the slip resistant abrasive material contained in the product shall be aggregate with a high rate of hardness. The dry-shake product shall be factory mixed, and delivered to the job site in watertight pails. Coverage shall be at the rate of 80 lbs. per 100 square feet.

INSTALLATION – Apply dry-shake dust in strict accordance with manufacturer’s printed instructions.

Concrete substrate: Concrete batch control should be uniform with water content at a minimum. Slump shall not exceed 4 inches. Concrete substrate should contain a minimum of 5 ½ sacks of cement per cubic yard. After placing, concrete should be vibrated and then floated to an even surface which corresponds to the finish grade. When concrete is placed during hot and windy weather, precautions should be taken to prevent discoloration and cracking resulting from rapid surface drying.

Precaution: Do not apply over concrete containing admixtures such as calcium chloride.

Dry-shake application: When the concrete substrate has reached the point where no excess moisture shows at the surface and the surface will properly hold the aggregate, dry-shake dust shall be applied in two coats evenly to the surface by the broadcast/shake-on method. Water must not be added to the surface during application or finishing. The moisture must come from the substrate in order to insure adequate bond and density. The first application should consume 50% - 60% of the dry-shake dust total poundage, with the balance held for the second application and final touch-up. A wooden float is recommended for hand floating. Do not trowel dry-shake dust between the first and second application. The second application is then applied evenly and the surface floated and trowelled. Retain a small quantity for touching up non-uniform, weak-toned areas. Proper concrete finishing practices should be used to achieve a uniform surface color.

STAMPING

STAMPING TOOL -- Concrete stamping tool shall be as manufactured by the Symons Corporation, or approved equal. The pattern shall be “Cobblestone.”

STAMPING – Concrete stamping shall be accomplished with the use of plastic sheeting material which is 1 Mil in thickness. Stretch the plastic sheet over as wide an area as possible taking care to smooth out all of the wrinkles. Using a reference line, begin placing the stamping tools along the reference line moving in any convenient direction. If the first placement is against one side of the form, place the open side of the tool against the form. Proper pre- planning and placement of the reference line should enable the work to be completed evenly and expeditiously with a minimum of handwork.

At the optimum degree of set for stamping, great force should not be necessary to drive the concrete stamp into the wet concrete. When using the plastic stamping tools, it should not be necessary to use a mallet or dead-blow hammer heavier than 3 lbs. Since time is of utmost importance in stamping, stamping should begin at the appropriate time and proceed without delay. Handwork, where required, should also commence as soon as possible. When the stamping is completed, remove the plastic sheet from the surface of the concrete. Inspect the work for areas which require deepening of the impression, extension of the lines, and any imperfections that may require correction. This step is performed using the chisel-type hand tools, which are a companion item to the main stamping tool.

As the surface of the concrete becomes firm, small lines and marks may be brushed out with a fine bristled brush using light sweeping strokes. When all the touch up is completed, the color wax sealer/curing compound shall be applied.

CURING AND SEALING

MATERIAL – Pigmented sealer/curing compound for colored stamped sidewalk concrete surface shall be as manufactured by Lambert Corporation, 20 N. Coburn Avenue, Orlando, Florida 32805, Phone (800) 432-4746, under the name **COLORGARD**, or approved equal. The color shall match the dry-shake dust color hardener of “Tile Red.”

INSTALLATION – Apply cure/seal in strict accordance with manufacturer’s printed instructions.

After the fresh poured concrete has been colored, finished, stamped, and all surface water has disappeared, the cure/seal shall be applied at a rate of 200 square feet per gallon. The cure/seal shall be applied with a Hudson-type sprayer, paint brush, or paint roller.”