

CHAPTER V

TECHNICAL DESIGN & PERFORMANCE STANDARDS

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DIVISION 3 - CONCRETE

03345 Concrete Finishing

Where possible, specify concrete with a high reflectance value to reduce heat gain. Blast furnace slag can be used in place of up to 35% of the Portland cement in concrete to accomplish these ends with no increase in cost. Fly ash from coal utility plants can also be added in place of up to 50% of Portland cement, though it doesn't necessarily lead to higher reflectance. The use of either of these substitutes promotes the use of recycled materials, adds no extra cost, and improves the workability, durability, and strength of concrete.

Walls, Columns and Ceilings

Clean and rub all exposed surfaces of concrete walls, columns, ceilings, and parapets to remove stains, foreign matter, burrs, fins, and any other surface irregularities after removal of form ties and after any repairs and patching work is completed. Exposed surfaces shall be left true to line and plane, and free from form marks and other imperfections. Cosmetic coatings used to disguise underlying defects are unacceptable.

Walks, Ramps, and Traffic Areas

Provide all exterior concrete ramps, walks, loading docks, aprons, and other such surfaces subject to wetting with a non-slip broom finish.

Drainage

Slope concrete floors with floor drains uniformly to the floor drain. Test the surface at the earliest practical time to assure that water will flow to the drain.

Porous Concrete

The use of porous concrete is less preferred to the use of pervious asphalt.

Concrete Truck Cleaning

Information will be added at a later time.

Interior Floors

Refer to division 9, section 9300 for information on interior concrete floors.



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