

DIVISION 03 - CONCRETE**CONCRETE****03 00 00**

Exposed concrete finishes shall be sealed (See Division 7).

For exposed architectural concrete where appearance is important, require formwork design submittal and mock-ups. Set clear tolerances for finish surfaces acceptance.

- A. For exposed architectural concrete, including formwork of such, the Executive Architect is to consider the following:
1. Formwork design shall be a required submittal for review by the Executive Architect of form types, location of joints and form ties, detailing of reveals, chamfers, textured surfaces, etc.
 2. When appearance is critical, require an on-site mock-up of vertical wall for architectural review to serve as an approved sample of finish.
 3. Stress proper storage and repair of forms; forms showing wear may not be re-used.
 4. Carefully review slump, aggregate size, and steel placement to ensure that they allow proper placing and aggregation of concrete for desired appearance.
 5. Consider the use of superplasticizers and integral color when appearance is critical. Specify the submittal of small color samples prior to pouring mock-up.
 6. Set clear standards for finish surfaces: limit deviation from line and plumb, rock pockets, sand streaks, etc.. Outline the maximum amount and methods of patching that are acceptable. (e.g., 2 sq. ft. per 1000 sq. ft. may be patched)
 7. Adopt relevant portions of ACI (American Concrete Institute) 301, Specifications for Structural Concrete for Buildings, as well as relevant supplemental requirements.
 8. For concrete slabs specify joints and maximum joint spacing.