

Guide for Concrete Floor and Slab Construction

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FOREWORD

The quality of a concrete floor or slab is highly dependent on achieving a hard and durable surface that is flat, relatively free of cracks, and at the proper grade and elevation. Properties of the surface are determined by the mixture proportions and the quality of the concreting and finishing operations. The timing of concreting operations—a specially finishing and jointing—is critical. Failure to address this issue can contribute to undesirable characteristics in the wearing surface such as cracking, low resistance to wear, dusting, scaling, high or low spots, and poor drainage, as well as increasing the potential for curling.

Concrete floor slabs employing portland cement, regardless of slump, will start to experience a reduction in volume as soon as they are placed. This phenomenon will continue as long as any water or heat, or both, is being released to the surroundings. Moreover, since the drying and cooling rates at the top and bottom of the slab will never be the same, the shrinkage will vary throughout the depth, causing the air-cure shape to be distorted, as well as reduced in volume.

This guide contains recommendations for controlling random cracking and edge curling caused by the concrete's internal volume change. Application of current technology permits only a reduction in cracking and curling, not their elimination. Even with the best floor design and proper construction, it is unrealistic to expect completely crack-free and curl-free results. Consequently, every owner should be advised by both the designer and contractor that it is completely normal to expect some amount of cracking and curling on every project, and that such occurrence does not necessarily reflect adversely on either the competence of the floor's design or the quality

of its construction.^{1,2} Refer to the latest edition of ACI 309 for a detailed discussion of shrinkage and curling in slabs on ground. Refer to the latest edition of ACI 224 for a detailed discussion of cracking in reinforced and nonreinforced concrete slabs.

This guide describes how to produce high quality concrete slabs on ground and suspended floors for various classes of service. It emphasizes such aspects of construction as site preparation, concrete materials, concrete mixture proportions, concreting workmanship, joint construction, load transfer across joints, form stripping procedures, and curing. Finishing methods, flame-surface requirements, and measurements are outlined. A thorough preconstruction meeting is critical to facilitate communication among key participants and to clearly establish expectations and procedures that will be employed during construction. Adequate supervision and inspection are required for job operations, particularly those of finishing.

Keywords: admixtures; aggregates; concrete construction; concrete durability; concrete finishing (fresh concrete); concrete slabs; consolidation; contract documents; cracking (fracturing); curing; curling; deflection; floor toppings; floors; forms; form stripping; heavy-duty floors; inspection; joints (junctions); mixture proportions; placing; quality control; site preparation; slab-on-ground construction; slump tests; specifications; standards; suspended slabs.

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JA Banks



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