

# Concrete Project Performance Guidelines

## • Contractor / Owner Expectations •

This document is being presented in order to clarify the 'Expectations' of both Contractor and Project Owner as it relates to the placement of quality concrete. Its main purpose is to present both parties with the opportunity to discuss and agree prior to the placement process.

The following list is comprised of several key steps that must be taken in order to increase the concrete's ability to perform as requested and designed:

- Subgrade Preparation with compaction and appropriate slope when applicable
- Concrete Slab Design and Joint Layout to assist with 'controlled cracking'
- Concrete Mix Design points of interest:
  - Water/ Cementitious Ratio  
(ACI recommends .45 for exterior concrete)
  - Quality of Aggregates (Limestone, Washed, etc.)
  - Exterior Concrete must be air entrained
  - Reinforcement (Fiber, Wire Mesh, Rebar)
- Proper Placing and Finishing of the concrete to include the following:
  - No finishing while bleed water is present
  - Protect concrete from extreme weather conditions
  - Steel troweling is not recommended for air entrained concrete
  - Place concrete within 90 minutes of batching
- Curing & Sealing Concrete:
  - Cure the concrete immediately after the finishing process
  - Seal the concrete 30 days after placement; reapply as needed
- Owner's Care responsibilities include:
  - Periodically reseal concrete
  - Never use de-icers that contain ammonium sulphate, ammonium nitrate, calcium chloride or magnesium chloride

Additional information on Quality Exterior Concrete can be obtained by referencing WRMCA *Protect Your Investment* brochure, **ACI 332** – The Guide to Residential Cast In Place Concrete Construction, and **ACI 302** – Guide for Concrete Floor and Slab Construction and [www.wirmca.com](http://www.wirmca.com).

The Undersigned have read and discussed the information listed above and have agreed to adhere to its principals. All parties are aware that ready mixed concrete is a mixture of natural materials that carry some inherent flaws and inconsistencies. Some variations in color and texture as well as minor surface imperfections are to be expected.

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**Contractor**

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**Owner**

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**Date**

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**Date**