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Colleagues:

The attached concrete durability recommendations were developed by members of the Sierra Nevada Concrete Association Technical Committee for use as a general guideline for concrete selection and curing. The purpose of the guideline was to provide information to those involved in the concrete associated industries in Northern Nevada and California. The guideline is not a complete list of all concrete requirements for exposure to our harsh environment. ACI, ASTM, PCA and local standard requirements should be implemented and utilized. The recommendations apply both to Public Works and Residential construction.

Please contact an SNCA member or national concrete association for further information.

Respectively,


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RECOMMENDED GUIDELINES

ACI 201- Guide to Durable Concrete
ACI 211- Standard Practice for Selecting Proportions for Concrete
ACI 301- Specifications for Structural Concrete
ACI 302- Guide for Concrete Floor and Slab Construction
ACI 305- Hot Weather Concreting
ACI 306- Cold Weather Concreting
ACI 308- Guide to Curing Concrete
ASTM C94- Standard Specification for Ready-Mixed Concrete
ASTM C33- Standard Specification for Concrete Aggregates

TIPS

-Keep concrete water evaporation rate below 0.15 lb/ft²/hr- holcim.us has an app for local evaporation rates. A meter can be purchased at nkhome.com (Kestrel)
-Under-finish and over-cure concrete.
-Areas where concrete will be exposed to ponding water and/or deicing salts may require the addition of a silane-siloxane sealer after the concrete has cured and dried.
-Do not expose new concrete to hot weather or freezing temperatures without proper curing protection.

Sierra Nevada Concrete Association

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