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 THE BUILDING INSPECTORS
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Metro Cold Weather Concrete Policy

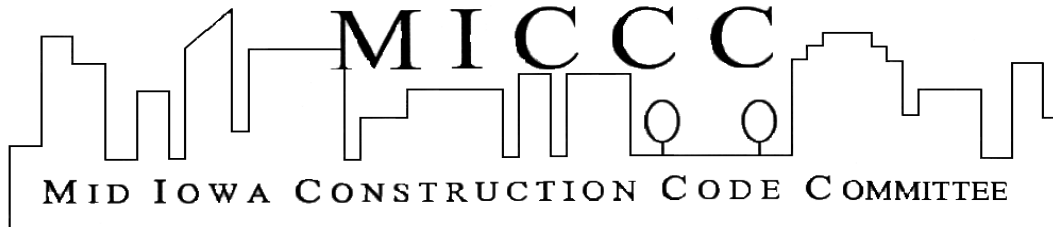
Promulgated by the
 Mid-Iowa Construction Code Committee
 March, 2001

1. Purpose
 1.1 The purpose of this policy is to regulate the placement of concrete during *cold weather* by providing minimum standards.

2. Scope
 2.1 This policy shall apply to all new or replacement concrete that is placed during cold weather, as determined by Sec. 4 of this policy. This shall include but is not limited to walls, slabs, sidewalks and drives.

3. General
 3.1 Local jurisdictions have the power to render interpretations of the building code, and to adopt and enforce rules and supplemental regulations to clarify the application of its provisions.

4. Requirements
 4.1 For **slab on grade concrete**, cold weather practices apply when the National Weather Service's predicted low for the next 24 hours is 32° Fahrenheit or colder. For thin section concrete walls (typical residential basement walls), the cold weather practice applies when the National Weather Service's predicted low for the next 24 hours is 25° Fahrenheit or colder.
 4.2 **Concrete cannot be placed when the temperature is predicted to drop below 10° Fahrenheit during the following 24 hours.** Concrete inspections will be not scheduled.
 4.3 Air entrained concrete must be used when exposure to moisture and freezing and thawing conditions are expected.
 4.4 Concrete cannot be placed on frozen subgrade. It may be possible to thaw a few inches of frost using heat or blankets, or remove the frost and regrade with appropriate compacted subgrade material.
 4.5 Dry calcium chloride cannot be field added to ready mix concrete. Calcium chloride and any other admixture must be used according to manufacturer' specifications and guidelines.
 4.6 Concrete must not be allowed to freeze for a minimum of 48 hours after placement; or until it reaches strength of 500 psi as determined by a laboratory testing. In order to satisfy curing requirements of a minimum of 50° Fahrenheit, any approved method of protecting the concrete (blankets, straw, tenting, etc.) must remain in place and effective for the minimum 48 hours. Forms may be removed during this curing period, provided that the protection is reinstalled and effective until the 48-hour period has expired.



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