



Municipality of Anchorage



Policy S.02

Cold Weather Concrete Curing

The following options are provided and may be used to insure the integrity and strength of concrete during the cold weather months in Anchorage. Under no circumstances shall any concrete be poured or placed on frozen soils or material while using any of the options listed below.

Option 1 (Tenting)

1. For high-early-strength concrete, maintain full tent heat at a minimum of 50 degrees for a period of not less than 72 hours. This must be used for both footings and walls.

Option 2 (Limited Tenting)

1. Documentation of concrete mix that meets or exceeds 1500 psi during a 24-hour period. All manufacturer-supplied documentation (batch tickets) showing type of and amount of additives used must be submitted to the Building Safety Inspector at time of inspection.
2. Tenting must be in place for a minimum of 24 hours, or until a strength of 1500 psi can be reached, while the temperature at night drops below 35 degrees.

Option 3 (Untented Concrete Placement)

1. This option may be used for placement of concrete footings and/or walls on structures having four dwelling units or less, and having three stories or less. The concrete shall be mixed, placed, and handled as per the findings of the CFA (Concrete Foundation of North America) guidelines when the temperature is at 20 degrees Fahrenheit or warmer at the job site at the time of placement without any supplemental heating or tenting.
2. Manufacturer's documentation (batch tickets) showing the mix design used meets the CFA guidelines for mixes #29 or #34 at a slump of six or less, and using a calcium substitute containing NCA (non-chloride accelerators), must be submitted to the Building Safety Inspector at the time of pour, or be presented to MOA and appropriate permit file.
3. This option of pouring concrete also requires that the **first night** following the pour all walls will be covered using industry approved curing blankets covering the top **1/3 (one third)** of the wall surface on both sides. **Footings** may be covered using 6 mil poly material. Bolts and rebar are permitted to penetrate the poly while covered.

Ron Thompson, Building Official

DATE : April 17, 2006

(Ref: 02-11; 05-03; 05-10)