



City and Borough of Sitka

PUBLIC SERVICES
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City and Borough of Sitka Building Department Cold Weather Concreting Policy 03-01

Effective Date: January 8, 2003

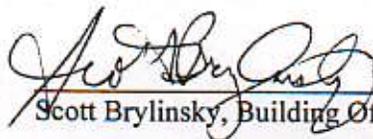
Purpose: To establish uniform standards for cold weather concreting based on outdoor temperature.

Background: Concrete must be protected from freezing temperatures during the first 1-3 days of curing in order to develop engineered strength. The first 24 hours is most critical.

Policy: The below standards are the minimum protective measures required.

1. Outdoor temperature at 33 degrees F or above:
No special measures necessary.
2. Outdoor temperature of 25 degrees to 32 degrees:
Required: No visible frost on reinforcing steel. Ground must be thawed. Forms and concrete must be covered entirely with plastic sheeting. No air movement under sheeting.
Recommended: Covering with insulated blankets and use of curing accelerant(s).
3. Outdoor temperature below 25 degrees:
Required: No visible frost on reinforcing steel. Ground must be thawed. Forms and concrete must be covered entirely with insulated blankets and plastic sheeting. Additional heat must be added under the blanket. A thermometer must be maintained by the contractor in the top 2 inches of the concrete at a location remote from the heater(s). Temperature of concrete must be maintained above 32 degrees for first 24 hours and above 28 degrees for the next 48 hours.
Recommended: Use of curing accelerant(s).

Approved:



Scott Brylinsky, Building Official

Date

1-8-03