

COLD WEATHER CONCRETE REQUIRMENTS

TOOELE CITY CORPORATION BUILDING DEPARTMENT

Building code requirements for concrete placement during cold weather,
Per: International Building Code and American Concrete Institute (ACI318)

1. Adequate materials and equipment shall be provided for protection and if needed, heating concrete during freezing or near-freezing weather. These must be on site at the time of inspection.
2. All concrete materials and all reinforcement, forms, fillers and ground with which concrete is to come in contact shall be free from ice, snow, or frost.
3. Cold weather requirements are in place when temperatures will go below 40 degrees Fahrenheit.
4. Wind protection is required when ambient air temperatures are below 35 degrees Fahrenheit. (due to wind chill factors)
5. Protection is required when the average daily temperature is at the following.
 - a. 30-25 F Weather resistive membrane for 3 days minimum.
 - b. 25-20F Insulation blankets for 3 days minimum.
 - c. Below 20F Provide supplemental heat under the weather resistive membrane or insulation blankets for 3 days minimum.
 - d.
6. Protection for the first 24 hours is the most important.
7. Concrete must not freeze for 2-3 days, or before it reaches a strength of 500 psi.

TOOELE CITY DOES NOT ALLOW STRAW TO BE
USED AS AN INSULATING MATERIAL.

David Gillette
Building Official



435-843-2130

davidg@tooelecity.org