

# Pouring Concrete in Cold Weather

Some recommendations for cold weather concrete work are:

1. If the ground is frozen no concrete can be poured. Auxiliary heat and/or insulation may be necessary to thaw the ground.
2. Do not use excessive amounts of calcium chloride especially if rebar is used. This tends to start corrosion of the rebar and can cause cracking of the concrete later due to alkali-aggregate reaction.
3. Slump should be 4" or less. Excessive water only tends to create the possibility of freezing the concrete faster.
4. Air entrainment should be added.
5. Concrete needs to be insulated from freezing for several days. Concrete blankets are best but other forms of insulation can work as well.

Source : "Cold Weather Concreting, ACI306R-88" Reported by the American Concrete Institute Committee 306 be obtained for more detailed information. It is recommended that anyone working with concrete obtain a copy of this for more detailed information.