

# Cold Weather Concreting

-Cold Weather Concreting is when the average temperature is less than 40°F and the temperature is not greater than 50°F for more than a half hour of a 24 hour period.

-Cold Weather Concreting can be achieved when the proper steps and precautions are taken.

## Game Plan

-Discuss plans with any and all interested parties prior to pour.

## Sub Grade

-Make sure that there is no freeze in your sub grade.

## Heated Enclosures

-Structures must be weatherproof and windproof.

-Combustion Heaters **must** have proper ventilation to the outside. If there is no ventilation, gases will weaken the concrete surface.

## Protection

-Concrete should be protected from the weather during the curing process. Insulated concrete blankets should be used to protect the concrete from weather and loss of heat during the curing process.

## Concrete Factors

-Lower **slump** concrete with a lower **water/cement ratio** is more desirable in cold weather to reduce bleed water and improve set time.

-**Hot Water** in the concrete can ensure faster set time.

-Use of **Accelerating Chemicals** will ensure faster set time.