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Cold Weather Concrete Products

Know the Influences of Cold Weather on Concrete!

Temperatures of concreting materials are influenced by the average temperature of the day. The warmth at midday may bear no resemblance to the actual concrete temperature. The lower the temperature of the concrete mix and the surrounding air, the longer it will take for concrete to set and gain strength. It is common knowledge – but frequently overlooked – that the setting of concrete is a physical-chemical reaction. Generally, the speed of a chemical reaction can double or even triple when temperature is increased by 18° F (10° C). With a decrease in temperature, the condition is reversed. The chart below shows the typical relationship between outdoor temperature and setting time:

Temperature	Approximate Set Time
88°	3 hours
70°	6 hours
52°	12 hours
34°	24 hours

To offset the increased setting time during winter months, Chandler Concrete Company offers several solutions:

Solutions	Approximate Reduction of Set Time
Heated Mix Water	1 hour
Heated water with 1% or 2% calcium chloride set accelerator	1.5 - 2.5 hours
Heated water with 1% or 2% non-chloride set accelerator*	1.25 - 2.5 hours

**The non-Chloride set accelerator is suitable to be used in applications where there is steel. Non-chloride accelerator should also be used in concrete where discoloration may be a concern. Non-chloride accelerators do not create the discoloration frequently associated with calcium chloride and are safe to use with pigmented/colored concrete.*

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*Our Word is as Solid
as Our Product!*