

## Hot Weather Concreting

The summer time effects of wind, temperature, and humidity can collectively have a detrimental impact on the performance of concrete.

Higher temperatures cause a faster rate of water evaporation and cement hydration, thereby stiffening concrete earlier and increasing the risk of plastic cracking occurring. Efforts need to be taken to lower the temperature of wet concrete and to protect it from the evaporating effects of wind and sun.

### Precautions

- If possible, sprinkle cool water on forms, steel and subgrade before placing
- Schedule mixer trucks to avoid waiting time.
- Organise the job in advance, quickly place the concrete, and have sufficient workers to avoid delays.
- After pouring, protect exposed surfaces from drying out through wind breaks, sunshades, fog sprays and approved curing membranes.
- After finishing, consider a curing membrane, plastic sheeting or water sprays to enhance curing and strength development.
- Use retarding admixtures to extend setting times.
- Consider early morning or evening placement.

Consult your Allied Concrete representative for specialised information.

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