

Sauereisen Technical Cement Heating Curing Guidelines

In practice, heat-curing procedures vary widely due to application specifics such as instrument dimensions, and allotted process time. Sauereisen offers the following basic recommendations as the starting point of determining a customized cure schedule.

1. Allow the cement to cure at ambient temperature until it is firm to touch. This will prevent potential cracking that could occur if warmer air is circulated over the wet cement. Ideally, longer ambient cure times (up to 24 hours) are best. In practice, 4-6 hours of ambient curing is fairly common.
2. Begin heat curing at 150° - 180°F. Recommended time duration: 8 – 12 hours. For the chemically setting cements or hydraulic-sets, additional heating past this stage is potentially not required.
3. For air-set cements, additional heating at 220°F is suggested to help drive out water. Where service conditions may approach the limits of physical properties, it is suggested to increase the temperature at a rate of 100°F per hour.

Special note applying to Hydraulics sets....

Due to the need of water to hydrate at a controlled rate from Cements 75 & 76, a humid environment is preferable. One way to accomplish this is by covering the cement as it cures.