

STEAM GENERATORS

Case History Steam Concrete Curing

Steam curing is a process for hardening concrete, cement, and mortar that involves steam exposure. The materials subjected to this hardening technique tend to cure more uniformly and also much faster for this the company the coconal acquired a steam plant brand Clayton model PVE0200. Since the steam quality with its 99.5% dry steam gives the conditions to minimize curing time, saving 50% of setting time.



Advanced
Steam
Technology
that Is Safe,
Efficient
and Reliable

In steam curing, the locks to be cured are placed inside a chamber, an operator can set the temperature level. Heat and moisture quickly penetrate the materials to hydrate and harden them completely. Steam curing requires a fraction of the time involved in traditional curing and quickly strengthens products so they can be used immediately.





The alternative to steam curing is to allow the products to cure naturally at room temperature and humidity levels. Timing is important when using concrete, cement, and mortar, as cool, humid weather tends to provide the best curing. Dry and hot weather will lead to weakness and cracking that can compromise the finished product and in some cases the damage may be extensive enough that the product cannot be used. This is an especially important consideration when working outdoors, where it is not possible to control temperature and humidity levels.

After pouring the concrete, steam will be applied in a time of 5-6 hours. Until that time, curing will be carried out with water. For proper hydration of the concrete, moisture losses are prevented by applying steam at a relative humidity of 100%. The maximum temperature of 60°C, which will be reached by increasing at a maximum rate of 4.4°C/hour, will be maintained until the resistance required for concrete is reached.

This process naturally takes up to naturally takes up to hours.



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