

MIDCAL RESEARCH AND DEVELOPMENT

DIS, addressing excess moisture in concrete

How and why DIS works:

Upon application, DIS enters the surface porosity and follows the capillary system in search of unused calcium hydroxide. DIS uses the CH as a catalyst and forms calcium silicate hydrate. This process continues for 30 to 45 days and can reach 4 to 6 inches in the concrete. Once the calcium hydroxide is converted, it becomes a permanent part of the concrete and will never break down or exit the slab. This process will also fill the porosity and the capillary system making it virtually impermeable. The alkali is stabilized and locked into place, and even moisture vapor is reduced to acceptable levels for floor covering.

How long does it take to work?

For concrete slabs that read 8 pounds or less per c/c test, DIS is a seven day system. Meaning the floor can be installed in seven days, in most cases. For concrete slabs 9 pounds and more, time parameters can be from 7 to 21 days. The determining factors include, density of the slab, moisture content, and HVAC conditions. However, the average time is 7 to 10 days.

Applications on new concrete:

In this application DIS is applied at division 3. Application begins as soon as the concrete finishers have completed their work and the concrete will accept foot traffic with out marring. With this preventative application the DIS has more calcium hydroxide to hydrate and becomes one of the best natural cures in the market. Also, at this point in time, time itself is removed from the equation. The concrete will be ready to accept the flooring on schedule.