

Hycrete Testing Summary – Vapor

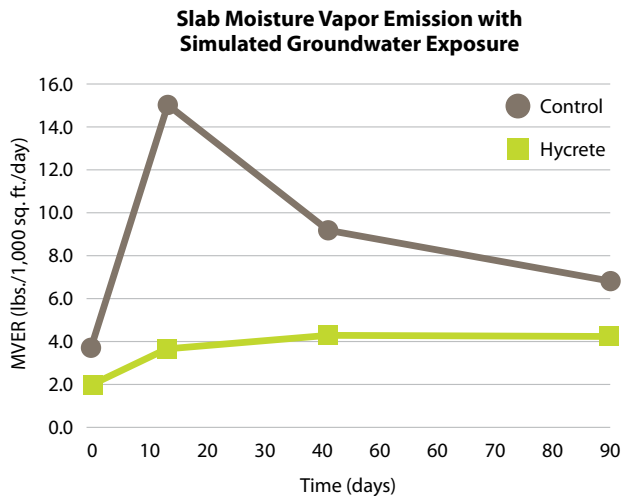
Moisture Vapor and Absorption Performance Data: Third Party Testing

Moisture vapor transmission

ASTM F1869 – Modified Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

Specimens are moist cured for seven days followed by 50% RH drying for a period of 94 days to observe drying rates. Specimens are then oven dried for three days followed by one day of cooling. Then the specimens are placed in containers with water such that the bottom one-inch of the slab is constantly immersed in water and a 50% RH atmosphere is maintained on the top surface. Measurements were taken at 1, 13, 41, and 90 days.

CTL Group, Skokie, IL: w/c 0.39; 700 lbs cementitious; 15% fly ash

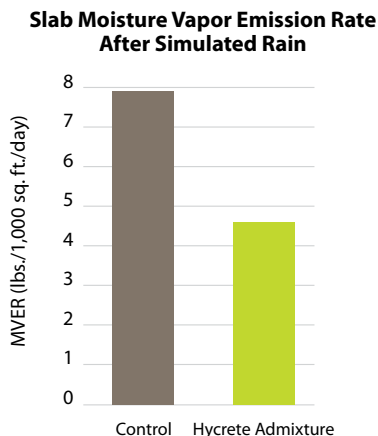


Absorption upon rewetting of concrete

ASTM F1869 – Modified Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

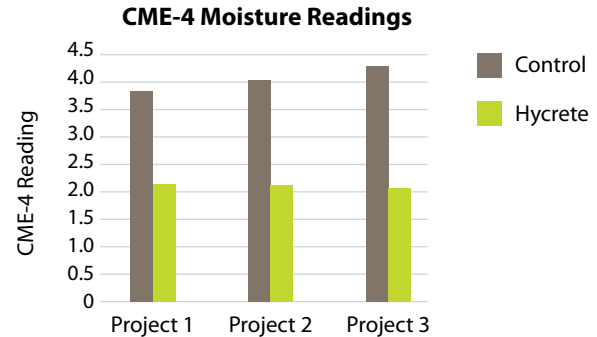
Specimens are moist cured for seven days followed by 50% RH drying for a period of 94 days to observe drying rates. Specimens are then oven dried for three days followed by one day of cooling. Then the specimens are immersed in water for 15 minutes to simulate a rain (or other wetting) event. Finally, the specimens are dried at 50% RH for 15 hours.

CTL Group, Skokie, IL: w/c 0.39; 700 lbs cementitious; 15% fly ash



Moisture content

Moisture readings were taken at several completed projects using a CME-4 meter. Results indicate significantly lower moisture content in concrete containing Hycrete admixtures compared to control concrete. Southwest Inspection and Testing, Inc., La Habra, CA; samples were taken from three projects with different mix designs

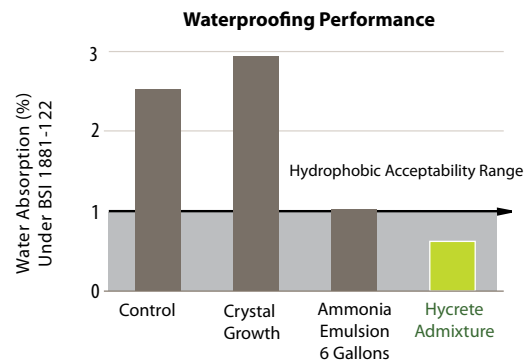


Absorption

British Standard 1881-122 – Method for Determination of Water Absorption

This test is used as the benchmark for hydrophobic concrete. Low w/c, high quality structural concrete typically tests in the 2%-4% absorption range. Hydrophobic concrete is specified at less than 1% absorption. Hycrete admixtures perform at the 0.3% to 0.9% range.

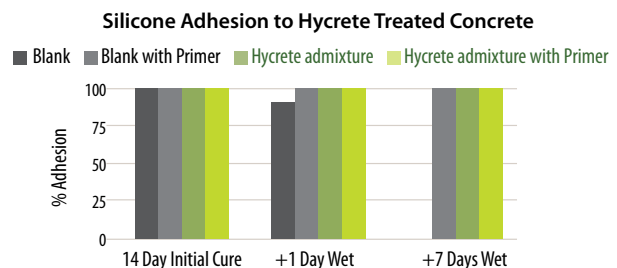
South Carolina Independent Lab Testing: w/c 0.40; 611 lbs Type I-II cement; polycarboxylate superplasticizer



Adhesion

Hycrete admixtures are compatible with most concrete admixtures and coatings and are not known to affect adhesion. For specific questions relating to your project please contact Technical Services.

GE Silicones Construction Laboratory, Waterford, NY



Copies of the original third party test results associated with this summary are available upon request