

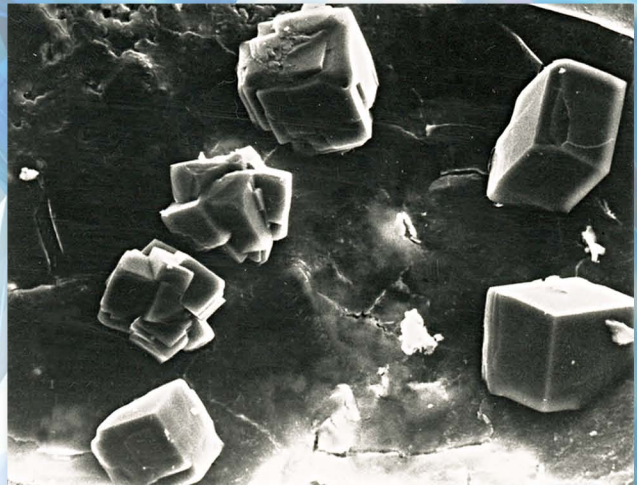
XYPEXTM

Crystalline Growth

Independent tests conducted in Japan by the Central Research Laboratory of Nikki Shoji revealed crystalline growth at 50mm. This report is illustrated with electron microscope photographs of the crystallization.

A concrete test piece of cylindrical form was treated on one end surface with a slurry coating of Xypex Concentrate and water mist-spray cured for ten days. The opposite untreated end of the test piece was then immersed in shallow water for a period of fourteen days.

An untreated control sample was sheared through 50mm below the end surface. The photograph on the right is of the sheared face. Precipitated Ca(OH)_2 Calcium Hydroxide together with cubic and rhombic particles are visible.



The sample treated with Xypex Concentrate was similarly sheared through at 50mm below the end surface. Photograph at the right is of the sheared face. Crystal formation by catalytic reaction emanating from the Xypex Concentrate commences. This is seen starting from the areas with Ca(OH)_2 particles with growth towards the C-S-H gel.



This photograph of the sheared face shows the considerable growth of crystallization developed from the gel of C-S-H. Therefore, the crystals had penetrated a minimum of 50mm within the three week period after the surface treatment with Xypex Concentrate.

