

Protectosil® CIT Corrosion Inhibitor

FAQ #2

January 2003

FAQ #2: Is the CIT going to work if the hydrophobic zone is less than the steel depth?

Yes. The hydrophobic zone created by the Protectosil CIT is typically measured with a simple test. It is commonly referred to as the “ink” test and it measures the CIT absorbed in the capillary suction phase of the application, not the diffusion phase. The detection limit of CIT with the ink test is very high, ~0.35% of CIT by cement weight. However, only more sophisticated methods are accurate enough to detect CIT at lower concentrations. Methods such as PyGC (Pyrolysis-Gas Chromatography) and FTIR (Fourier Transform Infra-Red Spectroscopy) are more sensitive but even these methods cannot detect the CIT’s concentration at the steel’s passive film region.

