

Study about environmental safety of construction material (2)

[Point]

It has recently been required to ensure environmental safety with regard to construction material. In this study, chromium hexavalent was paid attention as contaminant, and the recognition was made on the actual condition of dissolution from concrete structure, the actual condition of dissolution from fresh concrete in concrete work, and the actual condition of chromium hexavalent content in breeding water or in washing water.

As a result, dissolution concentration of chromium hexavalent from hardened concrete was revealed to be 0.05mg/l or lower, the environmental standard. However, there were some cases in which chromium hexavalent was detected in high concentration, such as in breeding water and in washing water of agitator vehicle that emerged at the time of concrete placing.

Keywords: construction material, environmental safety, chromium hexavalent, Environmental Agency notification No.46, dissolution test