

Title:

Development of Low Carbon Concrete with High Content of Admixture

Abstract:

Recently, global warming has become a serious issue. Construction companies also have responsibility to reduce carbon dioxide emissions in their business. Concrete is a primary building material used in most of the constructions. It is one of the biggest tasks for construction companies now to reduce carbon dioxide emissions in construction process. Obayashi Co. has developed the new material, Low-carbon concrete called "Clean-Crete". By replacing ordinary portland cement with by-products such as ground granulated blast furnace slag and fly ash partially, it can be produced with 80% less carbon dioxide emission compared to the general concrete. "Clean-Crete" has been applied to architectural building in Tokyo and some other areas. "Clean-Crete" is the most advanced eco-friendly technology. Low carbon technology will realize the harmony with the environment.