THE SIGNIFICANCE OF CORROSION IN RC STRUCTURES AND ITS MECHANISM

RAVI PUNIA

M.TECH. - CTM (CIVIL ENGINEERING) FINAL SEMESTER STUDENT,, DEPARTMENT OF CIVIL ENGINEERING, HCTM TECHNICAL CAMPUS, KAITHAL, HARYANA, INDIA.

ABSTRACT

Corrosion is one of the most, if not the most, pressing durability queries of RC. The following sections report on the fundamentals of some aspects of corrosion, including the conditions that lead to corrosion and factors that influence the rate of corrosion, with the focus on corrosion initiated by chloride ions, as this was the mechanism used to initiate corrosion for the experimental. The corrosion process does not take place directly but rather as a series of electrochemical reactions with the passage of an electric current. Corrosion also depends on the type and nature of the metal, the immediate environment, temperature and other related factors. Main objective of this paper to reveal the effect of corrosion on reinforced concrete beams at different levels of corrosion and its effect on load carrying capacity of RC beams subjected to different levels of corrosion.

Key Words: Corrosion, Ultrasonic, Cement, Aggregate
Sub Area : Construction Technology and Mgmt.
Broad Area : Civil Engineering

REFERENCES