

**Influencing Factors of Water Intentional Spraying Test for the On-site
Evaluation of Cover-concrete Quality**

Sohei NISHIO

Cover-concrete plays a crucial role in preventing reinforcing bars from corrosion. From the viewpoint of improvement in the durability of reinforced concrete structures, simple on-site testing methods for evaluating the cover-concrete quality become increasingly important. Therefore, we have developed a simple testing method, named Water Intentional Spraying Test (WIST), with especial emphasis on the applicability to on-site inspection. In this paper, we describe the experimental results of the factors that influence the quality evaluation by the WIST and propose a new measurement procedure that applies the WIST to the horizontal plane.