
The 46th JCI Technical Conference | A. Material & Construction | Repair & Strengthening (material)

Repair & Strengthening (material)II

座長:三倉寛明(土木),友寄篤(建築)

Fri. Jun 28, 2024 1:15 PM - 3:00 PM Room 4 (第3・4会議室)

[1330]FUNDAMENTAL STUDY ON IMPROVEMENT OF WATER TIGHTNESS AND BOND STRENGTH AT INTERFACE OF SPRAYED MORTAR FOR REPAIRING OF TUNNEL LINING CONCRETE

Sohibjon ABILKASIMOV¹, Akira HOSODA¹ (1.横浜国立大学)

Keywords:interface、 surface treatment、 watertightness、 bond strength、 repairing mortar

The effects of surface treatment methods at the interface between repairing mortar and original concrete on bond strength and on watertightness were investigated. The repairing mortar for RC underground tunnel structures severely deteriorated by chloride induced corrosion was used. Two kinds of mechanical processing for the surface of concrete and two kinds of chemical bonding agent were applied. Compared to the treatment only by wetting with water, chemical bonding agents remarkably improved bond strength and watertightness at the interface.