## 9. Development of Concrete Surface Treatment Devices Using Water Jet

- Development and Practical Application of Devices for Treating Ceiling and Floor Surfaces -

Hiroaki Shiraishi, Toshiyuki Ishii, Takeyuki Kawanishi, Katsuhide Morimoto

Water-jet surface treatment devices were developed for ceilings and floors that can thinly cut concrete surface or remove deteriorated coatings, and were applied to the repair or retrofit of concrete structures. As a result, it was verified that the devices have equal or greater performance than conventional manual hand-gun-type water-jet devices, provide higher bond strength between the treated surface and post-casted concrete section and improve work environment. The developed devices together with the water-jet wall and column surface treatment devices that have already been put to practical use enable efficient surface treatment for concrete structures.

Key words: water jet, surface treatment devices, coating removal, surface treatment, control of dust dispersion