

Improving surface quality by long-term curing New Curing Method Using Water Repellent Sheet



The Utsuku Seal method is a new curing technology that allows long-term wet curing by sticking a high water-repellent seat regardless the conditions such as the shape and position of the structure. The Utsuku Seal method improves the durability of the structure and finishes the surface beautifully.

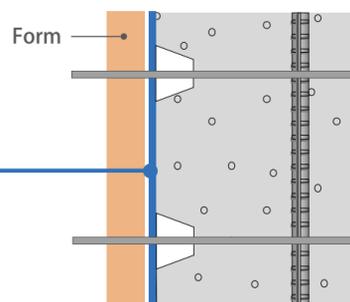
The Utsuku Seal method is a construction method developed through joint research by KAJIMA CORPORATION, Sekisui Seikei, Ltd., and the University of Tokyo.



High water repellent sheet

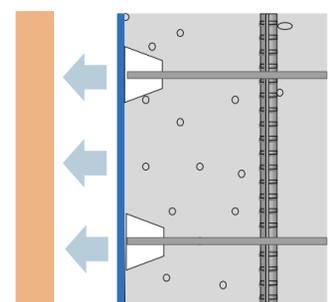
When placing concrete

Beforehand, the high water repellent seat is stuck inside the form and concrete is placed.



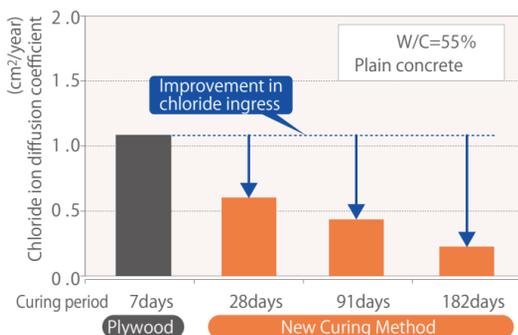
When removing the form

When the form is removed, only the sheet remains on the concrete surface.

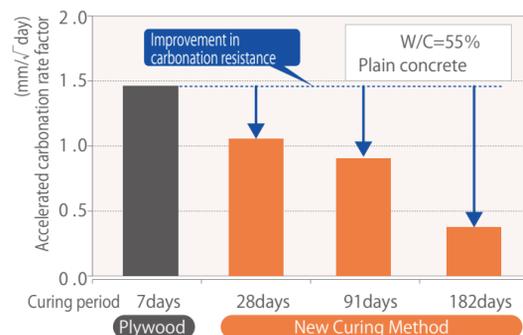


Features

- Long-term curing is possible without making the concrete surface dry even once.
- Long-term moist curing causes the hydration reaction of the cement to continue for a long time, which results in an improvement in durability.
- High water repellency of the sheet reduces surface voids of the concrete and improves appearance.



Effect of chloride ingress improvement



Effect of the carbonation-resistance improvement

Ordinary construction method

New Curing Method



Reduction effect of the surface voids

Application example

- Bridge substructure and superstructure construction work



Overhanging erection

Pier

Place of application



Curing by using a sheet



Sheet removal work



Appearance just after sheet removal

- Railway viaducts, box culverts, water purification facilities, etc.