Test research regarding bridge surface rationalization of long-span bridge (Part 3)

[Point]

As rationalization of long-span bridge construction, the upper structures' dead load reduction is required. Moreover, thinning of bridge pavement is required as a solution of the construction limit, which is an obstacle, due to cost reduction, and corresponding to 25tons of crossing bridges, plate deck upper surfaces are thickened. We need practical realization of thinner pavement with ensuring appropriate functions of pavement as driving surfaces.

In this research, we aim development of pavement material and method, which make bridge surface pavement thinner drastically. We performed assessment test of resin materials' applicability and practical realization, through examination of assessment items and methods, and promising material selection, as well as performed the material test for assessment of asperity adjustability, which is a problem especially for bridge surface pavement.

Keyword : bridge surface pavement, ultra-thinning layering, resin pavement