

# Concrete Degradation & Spalling Prevention System

## Hybrid Sheet Reference Technical Data

The tests conducted in Japan on Hybrid Sheet solutions with the primer and adhesive of SHO-BOND showed the following data.

### A. Deteriorating factor invasion control performance

Amount of chloride ions transmitted:	0.005 g/m <sup>2</sup> or less per day
Amount of oxygen transmitted:	5.0 x 10 <sup>-2</sup> mg/cm <sup>2</sup> or less per day
Amount of vapor transmitted:	5.0 mg/cm <sup>2</sup> or less per day
Neutralization depth:	1 mm or less (neutralization stop performance test)

### B. Concrete spalling-prevention performance

Load:	1.5 kN or more at a displacement of 10 mm or more (punching test)
Elongation:	0.6 mm or more (crack follow-up performance test)

### C. Durability performance

Adhesive strength after 2000 hours of accelerated weather resistance testing:	1.5 N/mm <sup>2</sup> or more and no change in appearance after 3000 hours
Adhesive strength after alkali resistance testing:	1.5 N/mm <sup>2</sup> or more and no change in appearance
Modulus of relative dynamic elasticity after 300 cycles of freezing and thawing testing:	60% or more