

Test survey about application of NOx reduction material that uses photo catalyst

[Point]

It is required to establish roadside environment countermeasure technique such as for air pollution, because air pollution associated with automobile traffic has been a serious issue. Therefore, this research aimed at verifying assessment method and durability of NOx reduction performance of material that used photo catalyst, which has been expected to reduce NOx caused by road traffic, and a test was conducted about exposure test and NOx reduction performance assessment test method of a covering material that used photo catalyst. This test revealed its durability as well as NOx reduction performance. Furthermore, NOx reduction effect was simulated for the case of applying NOx reduction material that used photo catalyst to elevated highway.

Keywords: photo catalyst, NOx, covering material, assessment test, durability, simulation