

**Development of a Method of Protecting the Rail against Corrosion and a Rail Fastening System  
for Decreasing Anticorrosive Coating Injury**

Mitsuru HOSODA    Tatsuro SAKAMOTO    Toshifumi TANAKA  
Minoru SUZUKI    Hiroo KATAOKA    Shinya SHONO

The maintenance work on rail defects, especially rail corrosion in tunnels, is very important in ensuring railway safety. As one of the methods of protecting the rail against corrosion, anticorrosive coating of rails is used. However, it has a problem of anticorrosive coating injury by the contact of the rail with the rail fastening device. In this paper, to decrease anticorrosive coating injury, the authors proposed improvement of the methods of protecting the rail against corrosion and a rail fastening system in which resin material is applied between the coated rail and the spring clip. Finally, we confirmed these methods are excellent in long term durability.