Development of Low Strength Stabilization Method for Fouled Ballasted Tracks

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As ballast on railway track is more crushed and grained, settlement of the track tends to occur even if after tamping, so that maintenance frequency increases. Although the basic measure to reduce the maintenance frequency is replacing the ballast with new ballast, the cost is high. Then, a low-cost method for reducing the settlement without replacing the ballast has been required. Therefore, the authors developed a low-strength stabilization method for reducing settlement without replacing the ballast. In this study, we confirmed the effectiveness of the developed method for reducing settlement through laboratory tests. In addition, we conducted field tests on a commercial line verify the effectiveness for reducing settlement.