

## TEMA: 08. PUENTES DE CARRETERA EN CONDICIONES INVERNALES

**SUB-TEMA:** Mantenimiento de puentes de carreteras en condiciones invernales

**Sesión:** 06/02/2014 ( 11:00 - 12:30 h )      **Pósteres:** 06/02/2014 ( 15:30 - 18:30 h )

**Sala:** A

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#### Título de la comunicación:

EL EFECTO DE LOS PENETRANTES DE SUPERFICIE TIPO SILANO PARA CONTROLAR LOS DESCONCHADOS Y LOS DAÑOS PRODUCIDOS POR LA SAL EN EL PUENTE DE HORMIGÓN WHEEL GUARD DE AUTOPISTA EN ZONA FRÍA

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#### Resumen (en Inglés):

In cold regions, there is concern about the deterioration of concrete structures caused by freeze-thaw action and deicing salt. In particular, scaling (frost damage of the type that concrete surface peeling) and reinforcing bar corrosion due to chloride-ion penetration is likely to progress in an environment. On the other hand, the maintenance budget of concrete structures is very few. For that reason, the deterioration control technique that economical and easy to adopt is required. As one such method, the silane-type surface penetrants attracts attention. However, there are few data about the effect of deterioration control in cold region. In this study, A test construction of silane-type surface penetrants was thus to evaluation the effect in highway bridge wheel guard concrete of Hokkaido, JAPAN. Although the test period was only six years, the longevity of its effects was confirmed.

