

SMA DOUBLE LAYER SOLUTIONS (SMA-DLS) FOR BOTH URBAN AND HIGHWAYS PAVEMENT PRESERVATION

Pablo E. Bolzan

Civil Engineer, Consultant of Paving Engineering Solutions, Argentina,
pablobol@gmail.com

Horst Erdlen

Business Unit Manager, J. Rettenmaier & Söhne GmbH & Co.KG, Germany,
horst.erdlen@jrs.de.

Armin Kohl

Regional Export Manager, J.Rettenmaier & Söhne GmbH & Co.KG, Germany,
armin.kohl@jrs.de

ABSTRACT

Pavement preservation is one important task to be carried out by the highway community on every road in every country. According to a consensual definition from AASHTO, Industry Representatives, and FHWA: pavement preservation is the sum of all activities undertaken to provide and maintain serviceable roadways, including preserving the investment in the national highway system, extending pavement life, enhancing pavement performance, ensuring cost-effectiveness, and reducing user delays. It is well known that SMA superior asphalt mixtures are cost-effective solutions all around the globe.

Recently in Argentina a new system called SMA-DLS has been applied on both highways and urban pavements with the purpose of obtaining safe, comfortable, and durable asphalt surfacing solutions. The idea of applying two layers with different designs comes from the need to accommodate different traffic, functional and structural conditions present in both urban and highways lanes. In the present paper several projects carried out in Argentina using SMA-DLS are described.

KEY WORDS: Stone Mastic Asphalt, pavement preservation, cellulose fibers, SMA.