

Kunluo Road Interchange Gets New Lease of Life

ELIMINATOR[®] system protects against water ingress



Project	Kunluo Road Interchange
Client	Kunming Municipal Development Company
Contractor	Kunming Construction Bureau
Applicator	Shenzhen Asianway Corrosion
GCP Solutions	ELIMINATOR [®] Bridge Deck Waterproofing System

Project

Locating a high performance waterproofing material

The Kunluo Road Interchange is a steel bridge deck in China that required a high performance waterproofing material to protect and prolong the life of the structure. After reviewing various pavement specifications, the client specified the ELIMINATOR[®] cold spray-applied bridge deck waterproofing system with a pavement layer made up of two layers of Stone Mastic Asphalt (SMA).

Minimising traffic disruption

A vital requirement during the waterproofing of the Yunnan Kunluo Road Interchange was that the products chosen would allow for a faster and easier construction process than traditional measures to help reduce construction times onsite.



Ensuring long-term waterproofing protection

Developed by Stirling Lloyd (now GCP Applied Technologies), ELIMINATOR[®] spray-applied bridge deck waterproofing system and SMA provided thermal stability as well as excellent crack bridging properties.

Based on unique ESSELAC[®] technology, the ELIMINATOR[®] system is a cold, spray applied system that allows for fast application and the ability to seal complex, critical details and penetrations with ease, forming a tough, flexible and seamless membrane.

Technical Guidelines for design and construction of deck pavement on steel box bridges requires an adhesive strength between the asphalt waterproofing layer and steel to be $\geq 1.2\text{Mpa}$. However, test data shows the use of ELIMINATOR[®] on steel bridge decks to be in excess of $\geq 5.0\text{Mpa}$.

The use of ELIMINATOR[®] waterproofing system with a pavement layer made up of two layers of SMA enabled the Kunluo Road Interchange project to be carried out within schedule. The ELIMINATOR[®] system ensured that the busy interchange will be well protected for the long term.

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gcpat.ae | United Arab Emirates customer service: +971 4 5139560

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

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Last Updated: 2025-05-15

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