

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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