

## CASE STUDY- Waterproofing

# XP-70 : MMA waterproofing of Highway bridge steel decks Yunnan, China

*Bridge decks waterproofing is very important to prolong the bridge service lifetime. Aggressive environmental conditions can cause steel reinforcement corrosion within the bridge structure's concrete resulting in delamination and spalling of reinforced concrete members, which if not resolved can lead to a deterioration in structural strength.*



### Challenges:

Customer initially applied the MMA waterproofing coating with one unknown brand pump but it is 1k machine, so they needed to mix the coating manually. And during the working procedure they faced lots of issues, such as ratio results were not evenly, and the machine also performed not stable and met frequent break down problems.

### Solutions:

Regarding to the material working instructions, it should be sprayed within 40 minutes as its high-viscosity feature. So we recommended **Graco XP70** which is **Plural-Component Sprayer** designed to pump, mix and atomise high-viscosity, high-solids coatings with superior results.

### Results:

During the work, XP 70 performed very well on the two-part high-solids coatings. In addition, the XP70's design allows gravity feed which may eliminate the need for feed pumps, saving money. When you upgrade from hand mixing, you'll find that the XP70 provides excellent return on investment, by reducing material waste and by using less clean-up solvent.

### Location:

Chengdu-Lijiang highway bridge, Yunan, China

### Materials:

Shuyang MMA waterproofing coating

### Application description:

Mix ratio: 1:1

Flow rate: 5L/min

Working pressure: 2500psi

### Products:

Machine: XP-70

Accessories: XTR gun



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