

## Bridge deck (Romania)

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|--------------------------|-----------------------------------|
| <b>Classification</b>    | Infrastructure                    |
| <b>Type of structure</b> | Bridge Decks                      |
| <b>Place/Time</b>        | Bucharest – Romania, October 2010 |

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|--------------------------------|--|
| <b>Purpose for application</b> | <p>Located in the Bărăgan Plain outside of Bucharest, Romania, where temperatures are extreme both in summer and winter, this project required concrete that could handle not only the freeze/thaw environment but also protect against chloride ion penetration due to de-icing salts.</p> <p>The concrete was poured on three bridge decks being built by an Italian construction consortium as part of a new highway system. The construction consortium were very concerned about steel corrosion and decided that the waterproofing abilities of the concrete, increased strength gain and the excellent freeze/thaw abilities resulting from the addition of Add1 would protect the steel and assist to increase the life of the concrete.</p> |
| <b>Products Applied</b>        | Krystaline Add1  |
| <b>Application</b>             | <p>Krystaline Add1 was added to the concrete as the only waterproofing and protection system for the deck surfaces. The product was added at 1 kg per m<sup>3</sup> on site and mixed for 10 minutes prior to concrete placement.</p> <p>Given the high dust and dry conditions at the time of application the surface areas were protected with wet burlap during the curing process.</p>   |
| <b>Results</b>                 | Application was conducted successfully. To date the project is still performing.   |

