

# TECHNICAL ARTICLE

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**FIGURE 1**  
Radcon Formula #7 application onto a rooftop area of the State Prison in Czech Republic.

## **Radcon Formula #7 - the only waterproofing solution**

Waterproofing of the State Prison rooftop in Minkovice - Czech Republic wasn't an easy task.

The area has been previously treated with various waterproofing and water repellent products without success.

Firstly, the structure could not hold additional weight load, such as concrete topping required when using traditional bituminous membranes.

Secondly, there was a ponding problem, most likely responsible for hasty failures of the previous waterproofing solutions.

Mr. Petr Celis, the managing director of RealSan, was confident that Radcon applied to grooved surface will solve the problem once and for all.

The rooftop was first grooved to ensure a fall line which may drain any excess water (as shown in figure 2 & 3) then Radcon Formula #7 was spray-applied to the exposed area.

Radcon's waterproofing performance was proven shortly after application by a successful pond test and this "problematic" area became yet another lifetime concrete waterproofing reference in Czech Republic.



**FIGURE 2 & 3**  
Grooved rooftop surface - drainage solution

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**FIGURE 4.**  
Bridge in Ostrov - Czech Republic.

A new bridge was designed to aid the growing traffic issues on route between a popular spa resort Karlovy Vary and the capital city Prague, in Czech Republic.

Prior to it's opening it was rejected by the client - the Department of Transport Czech Republic, due to new cracks appearing around the drainage areas.

The developer, company San Green, approached Radcon Formula #7 representatives in the Czech region Realsan for assistance.

Petr deployed customised application of Radcon Formula #7 - a "brush injection" and achieved the desired 100% watertight result.

In his email to Radcrete he concluded that given his long-term career in the construction industry he couldn't recommend or even source any waterproofing solution for both these projects other than Radcon Formula #7.



Dear Petr,

Thank you for the site stories vis rooftop and bridge application.

You are right; the prison roof could only be done with Radcon due to ponding problems combined with weight loading problems if a topping had to be applied over a traditional membrane approach.

From the photos of the bridge application there is no evidence of these 2.00 mm cracks referred to although I have no doubts they existed.

With cracks of this size, to my mind certain areas of the bridge must be settling.

This settlement may be complete or continue, causing 2.00 mm cracks to open further beyond Radcon's ability to re-seal, lets hope not.

Ed Byrne  
Managing Director  
Radcrete Pacific Pty. Ltd.



**FIGURE 5 & 6**  
Cracks on the drainage areas

