



MARKET APPLICATION FOCUS

Stadiums

Waterproofing

Two-Component PU Sealants

Project: Rice-Eccles Stadium
Owner: University of Utah
Architect: FFKR
Mason: Caffall Tile
Caulker: Waterproofing West
Year: 1998

THE PROBLEM

Rice-Eccles Stadium is the home of the University of Utah Football Team, as well as the location of the opening and closing ceremonies for the 2002 winter Olympic games. Renovations to the stadium were required to make sure the stadium would present itself well to the public.



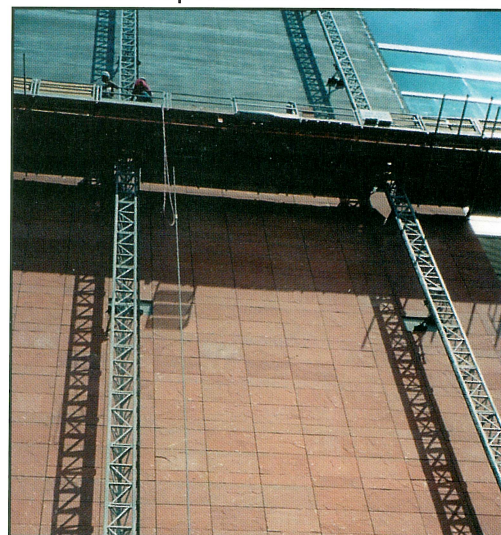
Sandstone was applied to 3 towers of the stadium to provide an aesthetic look.

Hundreds of sandstone blocks were applied to the face of the towers, which also meant that there were thousands of linear feet of joints that needed sealing to prevent water intrusion to the core of the structure. It was very important to the University of Utah to maintain the sandstone color throughout the entire surface and not have any staining take place that would degrade the appearance.

THE SIKA SOLUTION

The large amount of joints in the façade required the use of a sealant that would handle enough movement between the sandstone blocks. It was also important to select a sealant that did not stain and would match the color of the sandstone. The Sikaflex 2c NS, two-component, polyurethane sealant was perfect for the application. With 40 standard colors and movement capabilities of +/- 50% in expansion and contraction, the owner knew they were getting a high performing, aesthetic product. Plus they did not have to worry about staining of the sandstone blocks.

The project was completed and the University of Utah was pleased with the outcome. They can be assured the Sikaflex 2c NS will give them years of protection.



CASE STUDY



For Stadiums...

Sika's System approach to Concrete Repair and Protection

Anti-Corrosion Primer and Bonding Bridge

Sika Armatec® 110 EpoCem® - protects the steel from corrosion in areas of inadequate cover. Improves bond of repair mortar to both substrate and steel.

High Performance Repair Mortars

SikaTop® Plus mortars - two component polymer modified materials containing Sika FerroGard 901 corrosion-inhibiting admixture.

Corrosion-Inhibiting Impregnation

Sika FerroGard® 903 - spray-applied to protect areas outside the repair zone against future damage. Proven to penetrate and reduce corrosion effects of carbonation and salt exposure.

Surface Leveling/Pore-Filling Mortars

SikaTop® leveling mortars - achieve a level surface by filling pores, bugholes, or other irregularities in the surrounding substrate.

Anti-Carbonation Coatings

Sikagard® 550W and 670W - protect concrete facades from the damaging effects of carbon dioxide (carbonation), water and pollutants. Either crack-bridging (550W) or rigid (670W), both are available in a variety of decorative colors.

Joint Sealing/Waterproofing

Sikaflex® High Performance Sealants - premium-grade polyurethane joint sealants that are fully compatible with Sika's concrete repair systems.

Epoxy Injection and Bonding

Sikadur® epoxy resins help restore structural integrity by injection of cracks and voids. The most comprehensive range of epoxy products for structural bonding and grouting.

Structural Strengthening Systems (FRP)

Sika CarboDur® & SikaWrap® - a proven system of external strengthening using carbon fiber laminate strips, carbon fiber fabric, and glass fiber fabric. Stronger than steel yet lightweight and non-corrosive, these system components can solve unique strengthening problems in a variety of concrete structures.



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