

BELZONA REPAIRS STEPS AT CIVIC CENTER AUDITORIUM IN 1984. 40 YEARS LATER THE BELZONA REPAIR IS HOLDING STRONG.

ID: 9717

Industry: Buildings & Structures

Customer Location: Savannah, Georgia, USA

Application: FPA-Floor Problem Areas

Application Date:

Substrate: Concrete

Products: Belzona 4111 (Magma-Quartz), Belzona 4911 (Magma TX Conditioner)

Problem

The nose tread on the concrete steps have a metal plate. Over the years, expansion and contraction of the metal plate broke off the concrete end pieces. This problem became a safety issue for trip / fall risk.



Overview of the Savannah Civic Center Auditorium.

Overview of the 1984 Civic Center Spalled Steps.

Savannah Civic Center Repaired with Belzona 4111.

Application Situation

The Savannah Civic Center needed a timely concrete repair to prevent trip/fall risk. The spalled concrete steps could not be repaired using traditional concrete. Using BELZONA 4111 would repair the spalled concrete damage in a timely manner for the auditorium to reopen.

Application Method

In 1984, Jim Lynch with DBR Associates sold and applied the BELZONA products. The spalled concrete was removed and the concrete was wired brushed. Holes were drilled in the spalled concrete area and two or more 3" bolts were installed within the spalled areas to insure torsional rigidity. The spalled area was cleaned and the BELZONA 4911 (Magma TX Conditioner) applied to the area to be repaired. Plywood forms were placed on the sides of the steps and held in place with duct tape. BELZONA 4111 (High Performance Concrete Repair and Rebuild Composite) was applied by trowel and beveled where the metal nose tread met the repaired area allowing for expansion and contraction.

Belzona Facts

This BELZONA project was accomplished in 6 Days from start to finish and reopened to the public.

Inspection after 40 years revealed the BELZONA repair to be in good condition and no wear on BELZONA 4111 repair areas.

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FS 695214

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