



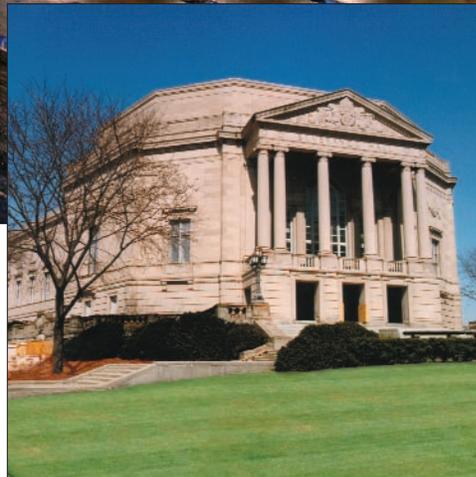
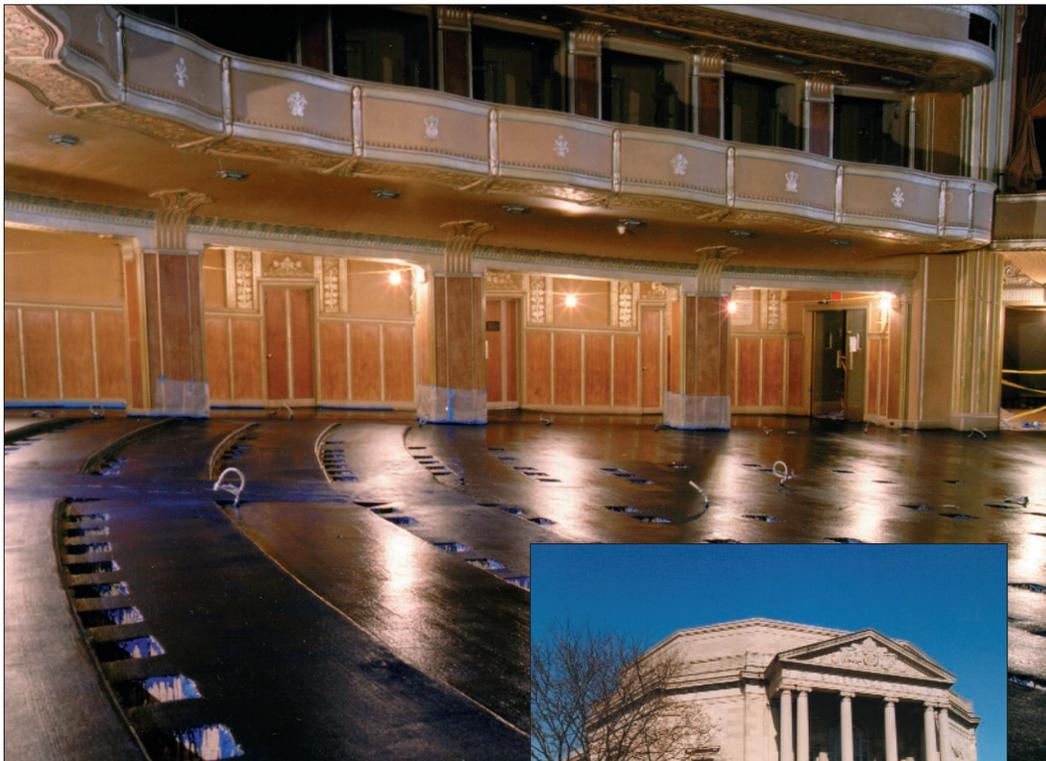
## CASE STUDY

### RESTORATION OF SEVERANCE HALL

Cleveland- Opened in 1931, Severance Hall located in the University Circle area of Cleveland has been the home of the world renown Cleveland Orchestra for over six decades. A \$35 million renovation project will once again make the facility a state of the art concert hall with new amenities for the audience's comfort and convenience. Completion expected by January 2000.

When the old floor covering in the concert hall was removed, it was discovered that the concrete floor was in need of serious repair. The concrete was severely pitted and cracked. Only the aisleways were to be re-carpeted. The remainder of the 9,000 square foot area would have a concrete surface as the finish coat. Repairs to the floor of the main hall had to be completed quickly so that cleaning of the ceiling and walls could begin. When completed, the floor had to have no holes or cracks, be slip resistant, easy to clean and a particular shade of blue. Further, the floor had to be completed in 5 working days with no more than 4 men working the job.

ChemMasters was called on to provide a solution.



The above photo is the finished floor restoration of Severance Hall.  
To the right is Severance Hall.

# HOW CHEMMASTERS MET THE CHALLENGE

**FEATHERPATCH** is a single component patching material used to fill thin cracks and spalled areas. After all the larger cracks were opened up with a drill and steel wheel, Featherpatch was mixed and squeegeed into the cracks. Featherpatch was also used to fill in the badly spalled areas. Contractors prefer Featherpatch because its easy to use, bonds tenaciously, develops high strength, can be featheredged and blends well with surrounding concrete.

**CHEMDECK**, a cementitious overlay system, was applied in two coats over the concrete after Featherpatch had cured overnight. ChemDeck was applied using brooms and squeegees at approximately 500 square feet per unit per coat. Each coat was given a light broom finish. The ChemDeck was pigmented to a special color blue per the specification of the Restoration Consultant.

**DURAGUARD 300**, a moisture cure urethane, was applied in two coats over the ChemDeck. The urethane was also pigmented to the specific blue color. Duraguard 300 is a single component urethane coating that develops very high gloss, resists staining and has a high level of chemical and abrasion resistance. The high solids urethane also helped to smooth the finish of the ChemDeck.

## What they said:

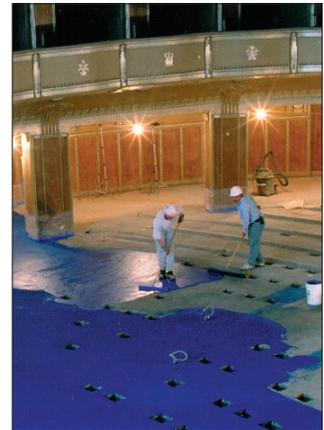
Joe Rosa of Panzica Construction said "The materials supplied by ChemMasters were excellent. The people from ChemMasters did what they said they would do and the job was completed on time."

Allen Eckert, Panzica's Concrete Superintendent said the ChemDeck covered all the imperfections in the concrete and left a perfect finish on the floor. The materials were easy to mix and apply and the ChemMasters personnel did an excellent job of training our people how to use the materials.

Jim Walborn of Concrete Solutions said, "ChemMasters did everything necessary to make sure this high profile job went well. They were there from beginning to end to handle any questions or problems".

Sonya Winner, the Restoration Consultant, said that ChemMasters and Panzica gave me just what I was looking for.

ChemMasters materials on the concert hall floor will help to keep Severance Hall looking as beautiful as the music created by the orchestra. The new floor is easy to clean, safe, durable and attractive and will remain that way, with little or no maintenance for years to come.



The above photos show the various stages of mixing and applying ChemMaster products throughout Severance Hall.

**GENERAL CONTRACTOR**  
Panzica Construction, Cleveland, OH  
**GENERAL SUPERINTENDANT**  
Joe Rosa  
**PROJECT MANAGER**  
Scott Dunlop  
**CONCRETE SUPERINTENDENT**  
Allen Eckert

**DESIGN**  
**OWNER**  
Musical Arts Association, Cleveland, OH  
**DESIGN ARCHITECT**  
David M. Schwarz Architectural Services, Washington, DC  
**RESTORATION CONSULTANT**  
Sonya Winner

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