

Providence Community Health Center

SOUTH PROVIDENCE, RHODE ISLAND

SUBMITTED BY SIKA CORPORATION

The Beaman & Smith Mill Company was founded in the 1890s and is located at Gordon and Saratoga Avenue in a densely populated area of South Providence, Rhode Island. The facility was built in stages and is comprised of two buildings adjacent to one another. Early in the American Industrial Revolution, Providence was one of the few cities

throughout the buildings. Building 1 had steel frames that required replacement and repair, while Building 2 needed both concrete repair and façade coating protection. Because the buildings had been closed for some time, there was a severe lack of maintenance, and the cast-in-place concrete had been compromised. Moreover, the buildings were left unprotected and subject to the harsh freeze/thaw cycles of the Northeast.



A combination of different testing and concrete repair options were used on this project, including spall repairs, protective coatings, epoxy injection of cracks, structural strengthening of the roof, and leveling of decks with moisture mitigation barriers and high strength leveling mortars. Once a structure in distress, PCHC is now completely transformed as a result of new technologies being practiced by the concrete repair industry.

able to establish itself as a center for the design and manufacture of machine tools. The Beaman & Smith complex typifies the industrial development of South Providence in the late 19th century. In 2003, the site was chosen as the home of Providence Community Health Center's (PCHC) state-of-the-art facility. The complex was listed on the National Register of Historic Places in 2006.

Steel corrosion and corrosion-induced concrete spalling and delaminations were prevalent



Providence Community Health Center

OWNER

Providence Community Health Centers

Providence, RI

PROJECT ENGINEER/DESIGNER

Vision 3 Architects

Providence, RI

REPAIR CONTRACTOR

Gilbane Building Company

Providence, RI

MATERIALS SUPPLIER/MANUFACTURER

Sika Corporation

Lyndhurst, NJ

ARCHITECT

Engineering Firm: Structures North

Salem, MA