

# Repair and protection of concrete with active surface treatments.

## - - Electrochemical chloride extraction to repair combined carbonated and chloride contaminated reinforced concrete



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Dissertationsrepair and protection of concrete with active surface treatments.

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## 5 Creative Treatments for Concrete Floors

Impact echo testing is performed on a concrete structural slab to help determine depth of deterioration. Slabs with working cracks can be overlaid if joints are placed in the overlay directly over the working cracks.

### The Xypex Concrete Waterproofing Advantage

This crack must be given serious and careful attention and repair at the right time.

## 5 Creative Treatments for Concrete Floors

Cement grouts should be avoided due to the likelihood of cracking. Photo: Minnesota Historical Society left.

### Concrete Broom Overlay Resurface Old Concrete Mix 6000PSI SureBroom

Care is required in all aspects of historic concrete repair, including surface preparation; installation of formwork; development of the concrete mix design; and concrete placement, consolidation, and curing. As with other repairs, trial samples are important to evaluate the effectiveness of the treatment and to determine whether it will harm the concrete or affect its appearance.

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Advantages of Xypex coatings include: resists extreme hydrostatic pressure, becomes an integral part of the substrate, allows concrete to breathe, resistant to aggressive chemicals, non-toxic, does not require dry weather or a dry surface, cannot puncture, tear or come apart at the seams, no costly surface priming or leveling prior to application, does not require sealing, lapping and finishing of seams at corners, edges or between membranes, can be applied to the positive or the negative side of the concrete surface, does not require protection during backfilling or during

placement of steel, wire mesh or other materials, less costly to apply than most other methods, and not subject to deterioration. The increasing international interest in contemporary architecture has drawn attention to the numerous listed buildings made of reinforced concrete in Europe, and especially in France. A judicious use of these resins is required in view of the high cost of these resins.

## **5 Creative Treatments for Concrete Floors**

Such prior repairs may require corrective work. As water within the concrete freezes, it expands and exerts forces on the adjacent concrete.

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The Berkeley City Club has significant interior spaces and features of concrete construction, including the lobby and pool. Cartridge Systems and Accessories Dispensing tools and mixing nozzles in stock at our Seattle, Tacoma, Portland, Spokane and Boise locations. Shear or tension tests can be performed with the load applied in a direction parallel to the repaired cracks as long as reinforcing steel is not present in the core in or near the failure area.

### **Electrochemical chloride extraction to repair combined carbonated and chloride contaminated reinforced concrete**

The use of reinforcement contributes significantly to the range and size of building and structure types that can be constructed with concrete.

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