

Restoration Services

PE staffs a complete restoration services department for all structural, non-structural, and historic building elements along with waterproofing, sealant & high-performance coating protection of structures for private and public clients. PE serves industrial, manufacturing, commercial, and medical markets as well as specializing in all types of parking structures. Our services provide owners with performance-based, cost-effective repair and protection solutions developed for their specific structure's issues and use criteria.

PE prides itself on staying current with the latest restoration techniques, material technologies and industry codes. We participate in continuing education with construction industry associations, product manufacturers, specialty consultants, testing laboratories and specialty contractors. PE is a long term active member of the International Concrete Restoration Institute (ICRI), the leader in developing concrete restoration industry standards.

Concrete Solutions

- Delamination due to corrosion of embedded reinforcing steel
- Cracking due to corrosion, shrinkage, settlement, thermal, internal or external stresses
- Moisture & chloride infiltration causing corrosion, freeze thaw damage or white crystalline efflorescence deposits
- Surface damage due to wear, scaling or carbonation
- Control, construction & expansion joint failures
- Crack epoxy pressure injection
- Strengthening & stabilizing w/ carbon fiber-reinforced polymers (CFRP)
- Corrosion management

Masonry Solutions

- Historic multi-wythe & terra cotta
- Modern cavity & rainscreen systems
- Flashing failures & Moisture infiltration issues causing white crystalline efflorescence deposits, freeze thaw damage, etc.
- Corrosion damage from embedded steel anchors, or structural members
- Cracking due to corrosion, shrinkage, settlement, thermal, internal or external stresses
- Masonry displacement due to moisture absorption growth, ice and rust jacking
- Veneer re-anchoring & Crack stitch stabilization
- Control joint sealant or expansion joint failures
- Masonry cleaning & water-repellant applications

Waterproofing & Protection Solutions

- Joint sealants
- Expansion joint systems
- Below grade waterproofing, drainage, expansion joint systems
- Vehicular and pedestrian elastomeric or hybrid elastomeric/epoxy membrane systems
- Plaza waterproofing systems
- Cementitious crystalline waterproofing systems
- Chemical grouting: individual cracks, curtain systems, slab stabilization
- Water-repellant & corrosion inhibitor applications
- Primary and secondary containment tank linings
- High performance coating systems

Investigation & Design

- Structural Condition Assessment Studies
- Destructive & Non-destructive testing
- Restoration budget estimates, single or multi-year phasing, Master Planning
- Restoration cost – benefit analysis
- Service life-cycle studies
- Restoration project construction document design including plans, details & specifications
- Prime Design Services: Turnkey project design & administration for Owners
- Construction administration services

Facility Maintenance & Document Management

- Develop facility maintenance plans
- Record Document management
- Facility & project warranty management & inspection

