

Three Tips for Preventive CPR Techniques

Concrete pavement restoration techniques fall into two general categories: corrective and preventive activities. This week's Tech Corner will discuss preventive techniques. They are proactive activities that slow or prevent the occurrence of a distress to keep the serviceability high.

The following are three techniques on preventive measures:

- **Joint and crack resealing** minimizes the infiltration of surface water and incompressible material into the joint system. Minimizing water infiltration reduces subgrade softening; slows pumping and erosion of subgrade or subbase fines; and may limit dowel-bar corrosion caused by deicing chemicals.
- **Retrofitting concrete shoulders** adds a tied concrete shoulder to an existing pavement. It is similar to dowel-bar retrofit because it decreases the critical edge stresses and corner deflections and reduces the potential for transverse cracking, pumping, and faulting.
- **Retrofitting edge drains** incorporate longitudinal drainage systems to remove water rapidly and may prevent pumping, faulting, and durability distresses.

For more information, refer to ACPA's *Joint and Crack Sealing and Repair for Concrete Pavements* (TB012P) or *The Concrete Pavement Restoration Guide* (TB020P). To order these publications, log-in to the ACPA members only section at www.pavement.com; call toll-free 1-800-868-6733; or fax requests to 847-966-9666.