

Better Ways to Build with Cement Treated Base

American Concrete Pavement Assoc NW (Video/VHS Format) 10 min

An excellent video for counties that want to try something new to add years to their existing roads.

Concrete Testing

1993 Michigan DOT Video/VHS Format 39 min

Demonstrates test methods for checking the quality of Portland Cement Concrete from field samples. The tests use standards developed by the Michigan DOT.

Part 1: Sampling Temperature & Slump

Part 2: Acme Air Meter and Roll-A-Meter

Part 3: Molding Cylinders, Molding Test Beams & Testing Beams

Field Control Test for Quality Control of Fresh Concrete

1987 © PCA Video/VHS Format 48 min

A good video showing the procedures of testing concrete in the field.

Finishing Concrete Flatwork

1984 © PCA Video/VHS Format 31 min

For use in the training of concrete finishers. Each step in the operation is discussed and demonstrated. The selection of the proper tools and techniques is also covered. Exterior flatwork is emphasized.

Fundamentals of Quality Concrete

1984 © PCA Video/VHS Format 17 min

Discusses the importance of water-cement ratio, hydration, air entrainment, and aggregate selection in determining the strength of concrete.

Placement Inspection

1984 © PCA Video/VHS Format 13 min

Concrete placement, vibration of concrete, joint construction, and general concepts of good construction practices. Sampling and testing of ready-mixed concrete. Placement by buckets, buggies, conveyor belts, and pumping.

Portland Cement Concrete Plant Inspection-Truck Mix Plants

1993 FHWA Video/VHS Format 27 min

All aspects of truck mix plant operation are examined: dry and liquid material measure calibration, batching, truck charging, truck mixing and agitation, and truck cleaning and inspection. Program is suitable for interested non-technical audiences.

Quality Edge-Concrete Flatwork Videotape Training Series, The

1994 © PCA

Video/VHS Format

1. Basic Finishing Techniques For Concrete Flatwork 18 min
Covers finishing tools, strike-off, bull floating, waiting periods, edging, jointing, floating, troweling, and brooming. Details the ordered sequence of steps for finishing and reasons for following them.

2. Curing Concrete Flatwork 16 min
Explains the purpose of curing, how curing increases strength, techniques for hot and cold weather curing, and curing methods: liquid compounds, plastic sheeting, and wet burlap.

3. Joints & Crack Control 12 min
Covers the types of joints: control, isolation, and construction, and provides guidelines for joint location and spacing to effectively control cracking.

4. Basic Techniques for Placing Flatwork 16 min
Discusses the tools, supplies, and subgrade preparation required for quality concrete placement. Includes selecting the right size crew, form-setting techniques, reinforcement positioning, ordering concrete, adjusting the slump, and the methods used to place concrete correctly.

5. Quality Control: Avoiding Slab Defects 21 min
Explains how to avoid the practices that cause common defects such as scaling, pop-outs, cracking, crazing, blistering, and discoloration. Illustrates each of these defects and shows how to prevent them by using the appropriate concrete mix and proper construction methods.

6. Subgrade Preparation and Forming 15 min
Illustrates how to prepare the subgrade to avoid unwanted cracking and settlement of the concrete slab. Shows how to remove hard and soft spots, backfill trenches, and select fill material. Covers the materials and techniques used to construct forms of various sizes and shapes.

Ultra-Thin Whitetopping: Today's Choice for Durable Pavement Overlays

1994 American Concrete Pavement Assoc., NR Video/VHS Format

8 min

A quick overview of the placement of 2 to 4 inches of concrete on existing AC. (This is an industry promotional program).
