

# HIGH PERFORMANCE CONCRETE PAVEMENT

Wisconsin Concrete Pavement  
Association's Annual Workshop  
February 17, 2010

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# High Performance Concrete Pavement

- ▣ What is it?
- ▣ Why are we using it?
- ▣ Where will it be used?

## What is High Performance Concrete Pavement?

- ▣ Improved Coarse Aggregate Qualities
  - Reduced Soundness requirements
  - Reduced wear requirements
  - Reduced chert content
  - Freeze-Thaw testing required

## What is HPCP

- ▣ Increased compressive strength requirements to 4,500 psi
- ▣ Mix design testing to include flexural strength requirement of 650 psi
- ▣ Poly-alpha-methyl styrene curing compound required
- ▣ Application of silane sealer to all sawn surfaces
- ▣ Stabilized base material
- ▣ Corrosion and fatigue resistant load transfer dowel bars.

## Why are we using HPCP

- ▣ We are striving for long term superior performance.
- ▣ The existing specification is fairly broad.
- ▣ The need to focus more on flexural strength of concrete pavement.

## Where will the specification be used

- ▣ Highest functional type of facilities and highest traffic volumes
- ▣ Work in progress
- ▣ Specification to be reviewed in light of locally available resources and conditions.

Questions ??????