

Technology Deployment Initiatives and Partnership Program

Request for Funding

FY 2001

FHWA Strategic Goal Area: Productivity

Project Title: Evaluate Silica Fume Shotcrete

Problem Statement: The affects on adhesive and cohesive performance of shotcrete using silica fume are unknown for some structural applications. An evaluation of adhesive and cohesive properties of silica fume shotcrete could provide performance indicators. Evaluation of in-place properties like compressive strength and permeability could also relate to performance.

Proposal: Establish a test and evaluation plan for project trials to evaluate adhesive and cohesive performance as well as compressive strength and permeability.

Benefits: Improved quality and placement techniques of shotcrete.

Resources/Cost: \$100,000

Duration: 2 years

Organization/Method: Install silica fume shotcrete on a selected project by contract and evaluate its performance in house.

Submitter:

Agency/Division: Western Federal Lands Division

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Champion:

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