



Slurry-FIL™ Case Study: Charleston, South Carolina, USA



Since their development and launch in 1970, alkali-resistant glass fibers have been used in more than 120 countries to reinforce cement and concrete products.

Slurry-FIL™ is an alkali- and acid-resistant glass fiber produced as an assembled roving or as pre-chopped strands which are designed for use in the production of slurry surfacing paving applications.

PROJECT DETAILS



Before slurry surfacing paving



After slurry surfacing paving

Actors	Owner	South Carolina Department of Transportation
	Road maintenance	County of South Carolina
	Paving contractor	Slurry Pavers, Inc. Richmond, VA
Project	Location	Charleston, South Carolina
	Date	October 29 th –31 th , 2012
	Type	Slurry Seal Paving (Cement 1%)
	Paving details	Paving depth ½"
	Project details	4.5 lane miles, were paved using about 380 tons of dry material
Fibers	Product	Slurry-FIL™ 2400 Tex Roving
	Target addition rate	0.2% of material dry weight
	Actual addition rate	0.2% – approximately 1400# (635 kg) were used on project
Slurry-FIL™ fibers	User friendly	Roving chopped and dispersed quickly throughout matrix
	Excellent workability	Fiber material was easy to move with rake and did not have an adverse affect burlap mop finish
	Reduced water demand	Mix design did not need additional water to achieve good workability
	Improved set time	Fiber support system allowed for a faster road reopening
	Service benefits	Improved reflective crack resistance and long term durability

cem-fil@owenscorning.com
www.Cem-Fil.com

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