

# PROJECT PROFILE

## PROJECT NAME: Route 58 Concrete Paving

### PROJECT BACKGROUND

For the first time in several years the Virginia Department of Transportation choose to do concrete paving in place of asphalt on Virginia's Route 58 located in Southampton County, Virginia. The project had the support of and was encouraged by the VDOT Highway Research Council and the Mid-Atlantic Chapter of the American Concrete Pavement Association. The project would be done in 2 phases and would involve approximately 4 miles of the East to West lanes of Route 58. Hi Way Paving, Inc., based in Ohio with their extensive experience in concrete paving was selected for the project.

### STRATEGIES/CHALLENGES

This section of Route 58 was concrete pavement, somewhat old and was in need of resurfacing. In the first phase an asphalt overlay was applied over the existing concrete surface. A 7 inch new concrete surface was applied and paved over the asphalt overlay. The shoulder would also be concrete. This phase of the project was approximately 2 miles.

A different approach was taken on the second 2 mile phase of the project. Instead of applying an asphalt overlay over the existing concrete surface, the concrete was shot blasted and 4 inches of new concrete was paved over the surface of the existing concrete. Vexcon's Certi-Vex Envio Cure White 1000 VDOT, curing compound was used on both concrete phases of this project.

### RESULTS

This was a high profile project visited by a large number of VDOT and Federal Highway officials, and others. The project is considered to be a reevaluation of the benefits, construction cost savings and extended life cycle that can be achieved with concrete pavement. In addition, this was the first project in Virginia in which 4 inches of concrete was paved directly over an existing concrete surface.

Vexcon Chemicals supplied all the of the white curing compound used on this project. Curing Compounds used in Virginia are tested and approved by VDOT Materials Division. Materials are approved for use on a batch to batch basis and must pass VDOT's specification perhaps the most stringent, exceeding ASTM C-309, in the country. Vexcon was able to consistently provide the cure to meet VDOT specifications and construction deadlines of this project. We are happy to have partnered with the Virginia Department of Transportation and Hi Way Paving on a successful project.

<b>Project Participants:</b>	Virginia Department of Transportation and Hi Way Paving Inc.
<b>Project:</b>	Virginia Route 58, Southampton County VA
<b>Project Type:</b>	Concrete Paving
<b>Location:</b>	Route 58, Southampton County, VA
<b>Owner:</b>	Virginia Department of Transportation
<b>General Contractor:</b>	Hi Way Paving, Inc
<b>Concrete Contractor:</b>	Hi Way Paving, Inc
<b>Project Completion Date:</b>	October 2012
<b>Product Used:</b>	Certi-Vex Envio Cure White 1000 VDOT



### ABOUT VEXCON

Founded in 1974, Vexcon Chemicals core business is the manufacture, distribution and sale of construction chemical products.

Vexcon Chemicals is an industry leader providing innovative product solutions through the development of advanced chemical technologies designed to meet today's construction demands. With our unique capability as a vertically integrated specialty chemical manufacturer we produce as starting materials water and solvent based epoxy, urethane, hydrocarbon, acrylic and silicone products. These technologies allow us to develop cost effective products that are designed to exceed market demands for consist high performing materials. We also have the ability to manufacture customized products developed to meet specific customer demands.

Vexcon produces construction materials designed to build, repair, enhance, protect, and maintain a wide variety of concrete and masonry structures.

Our products span numerous markets and product categories and are commonly used on transportation, commercial, industrial, distribution, institutional and residential projects both nationally and globally.

Vexcon Chemical, Inc.  
7240 State Road  
Philadelphia, PA 19135  
1-888-VEXCON-1  
(215) 332-7709  
www.vexcon.com  
sales@vexcon.com

