



We create chemistry

August 24, 2017

Mr. James P Hughes  
Hughes Group, Inc.  
6200 E. Highway 62  
Building 2501, Suite 100  
Jeffersonville, IN 47130

Dear Jim,

For over 35 years Latex Modified Concrete overlays have been successfully placed on bridge decks which were prepared through the use of Hydro-demolition. We strongly believe that the use of Hydro-demolition for surface preparation is the fastest and most effective way to prepare a bridge deck for a new Latex Modified Concrete (LMC) overlay.

One of the key factors to a high quality LMC overlay is to achieve high bond strength between the existing bridge deck concrete and the exposed reinforcing steel with the new LMC overlay. Our Styrofan 1186 Latex Polymer will bond to both equally well. The Hydro-demolition deck surface must be very clean and in a saturated state, without ponding water, prior to installation of the new LMC overlay to achieve long term bonding. Grouting of a Hydro-demolition surface is not necessary. We have also found when Hydro-demolition is used to prepare a bridge deck, it is not necessary to provide clearance around partially exposed reinforcing steel. Surrounding the bars with LMC is not required. As long as you have a clean & saturated surface and a sound existing concrete deck, you will achieve a superior bond.

As you are aware, a problem can occur in bridge deck overlays when some of the deteriorated concrete in the existing deck is missed or not removed. Hydro-demolition insures that this does not occur and takes the guesswork out of concrete removal. Additionally, in our experience, Hydro-demolition does not leave micro cracks in the existing deck where jackhammers may.

We are looking forward to many more projects specified with Hydro-demolition and the use of LMC. We believe this is the best combination to insure the owner receives a superior, sustainable, and the longest lasting bridge deck overlay possible.

Sincerely,

A handwritten signature in black ink, appearing to read "James Andrews", with a long horizontal line extending to the right.

James Andrews  
Infrastructure Marketing Manager  
BASF Corporation