


INDUSTRIAL SOLUTIONS USA

A Field Report

Secondary Containment – Repair

Project/Customer Information:

Project Overview:	 <p>Sprayed on containment liner had become breached. The damaged lining was removed and re-sprayed resulting in monolithic adhesion to existing lining.</p>
Industrial Customer:	Colonial Pipeline Co., Atlanta, GA Headquarters
Project Location:	Colonial Pipeline Co., Austell, GA Operations Juan Cazares, Associate Project Manager (PH) 770-819-3554
C&I Applicator:	V&V Commercial & Industrial Linings, LLC Archie Vega, Partner Charleston, SC (PH) 843-207-0533
Lining Formulation:	Concrete moisture cured sealer/primer. ISUSA – 544 (black), 100% solids polyurethane sprayed on lining
Lining Application System:	Rhino Linings MX-2300 Hi-Flow SprayCast System – low pressure and low temperature.

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Situation Overview:

The concrete pig trap that had been lined with a sprayed on polyurethane lining suffered a failure in part of the lining and that part of the lining needed to be removed then repaired. The area that needed repair was relatively small, approximately 200 square feet. Colonial Pipeline required the repaired lining be of similar or higher quality than the original sprayed on lining.

Existing Situation:

The portion of the sprayed on lining which had a breach was only a small area of the total lining. It was discovered another area adjacent to the breach exhibited delamination/poor adhesion to the concrete substrate. Colonial Pipeline wanted the area repaired quickly; they needed an applicator with a very portable application system that allowed the applicator to arrive on the job site with minimal notice. V&V Commercial & Industrial Linings was contacted to repair the small area with their Quick Spray system.



The previous lining had blistered due to contaminants left on the substrate which reacted with the sprayed on lining.



This is evidenced by the photo left that show the oils when a portion of the failed lining was removed.

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The Solution:

In order to ensure long term repair performance the contractor decided the end portion of the pig trap lining would be removed (including the failed lining and all adjacent lining material). The lining area to be repaired was removed by hand and by mechanical grinding. The concrete substrate was cleaned with acetone to remove all contaminants and the area was primed with a moisture cure concrete bonding primer.



ISUSA – 544 polyurethane/polyurea was sprayed 1/4" thick onto the primed concrete conforming to all the contours and feathering onto the transition elevation of the original lining creating a monolithic, impervious protective lining with tenacious substrate and interlayer adhesion.

EPA - SPCC compliant
Title 40, Part 112.

EPA – CAFO (USDA) compliant
Title 40, Part 412



For more information, samples and bids please contact Industrial Solutions USA.

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