



New Pig

PIG Well Pad Division



One Pork Avenue | Tipton, PA 16684-0304 | 855-PIG-LINER | newpig.com/shalegas

New Pig Corporation Test Report

**Silaprene[®] Solid Seal[®] Caulk
Chemical Resistance Testing**

Test Performed by Bob Starr August 2012

Report Written by Doug Evans



Abstract: This test evaluates the ability of New Pig’s Silaprene® Solid Seal® Caulk to maintain a seal after prolonged exposure to various chemicals that might be experienced on a Well Pad. The test was designed to simulate a spill condition where the Caulk would be exposed to the chemical. The Caulk was evaluated over a defined period of time and a rating is given based on how long the seal was maintained. All of the chemicals tested resulted in a “Good” rating when no leak was recorded after twenty four hours.

Introduction: The purpose of this test was to evaluate the chemical resistance of New Pig’s Silaprene® Solid Seal® Caulk. The test evaluated the material’s ability to withstand extended exposure to chemicals by maintaining a seal. All chemicals resulted in a “Good” rating.

Method: The chemical compatibility test was conducted using various chemicals that are present on Well Pads in accordance with New Pig Test Procedure #0002 with one difference. We couldn’t make 9” diameter donuts so a circular ring was created by applying caulk to make a ½” wide x ½” high ring with a 3” diameter.

Procedure: The test was run in strict accordance with New Pig Test Procedure #0002, modified as above. The results were given based on the following classifications:

Rating Classification	
Four Hours (or longer)	= Good
Two to Four Hours	= Fair
30 Minutes to Two Hours	= Emergency Response (ER)
Under 30 Minutes	= Not Recommended (NR)



Results:

Chemical Compatibility	
Chemical	Rating
Diesel Fuel	Good
Hydraulic Oil	Good
Hydrochloric Acid (50% V/V)	Good
Saturated Brine Solution (NaCl and CaCl 2)	Good

Discussion: The test evaluated New Pig’s Silaprene® Solid Seal® Caulk. All of the chemicals tested did not breach the seal in 4 hours. In fact, all tests were run for a full twenty-four hours without any failure. See the Appendix for pictures of the caulk during and at the end of a test. New Pig Corporation gives Silaprene® Solid Seal® Caulk a “Good” rating classification on all the chemicals tested.

Conclusion: Based on our testing, New Pig’s Silaprene® Solid Seal® Caulk will maintain a seal when exposed to the chemicals tested for at least twenty four hours.

References: New Pig Corporation Test Procedure #0002

Appendices:

Chemical Compatibility Notes	
Chemical	Notes
Hydrochloric Acid (50% V/V)	Contact surface color faded.
Diesel Fuel	No effect
Saturated Brine Solution (NaCl and CaCl 2)	No effect
Hydraulic Oil	No effect



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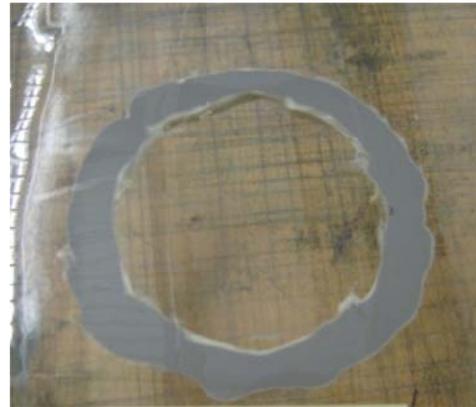
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Pictures:



Ring of caulk on a 13" glass plate filled with fluid



Typical results looking at the bottom of the glass plate after the test was over. No degradation