

# HOW TO DO THE INSPECTION ON THE PIPE ONCE WE APPLY HPC ® / RUST GRIP ® OR MOIST METAL GRIP ® AND SP LIQUID MEMBRANE ® \ SP SEAL COAT HT AS A SYSTEM

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## Questions and Answers

**Q** If any leak in the Riser, would it be visible where affected?

**A** Very visible. Leak comes out of crack in pipe, into HPC ® and up immediately to the surface that is visible. HPC® is not a hard and tight coating, it is light weight and porous to allow the ceramics to work and therefore allows the leak to shoot through quickly.

**Q** IF there is elongation would it crack?

**A** HPC has some 15% elongation before it would crack. Elongation is a problem in a long length of pipe that varies in temperature. It always has been a problem, therefore, you must overcoat with SP LIQUID MEMBRANE® to be able to bridge the elongation cycles.

**Q** Recommended periods for inspection after HPC ® has been installed, for example: Pemex normally calls for inspections every 3 years... With HPC every 5 years for example? Please advise..

**A** They do 3 years because the wrap and clad absorbs moisture and begins to corrode. Since the HPC ® Coating system covers all parts of elbows, valves and all parts of the pipe system, the sealing of the pipe surface from air and moisture is more effective and lengthens the time that should be required to check for CUI. So, yes, 5 years would be good.



**Q** Once installed, is there any equipment that needs to be used to determine if HPC ® was properly installed?

**A** Unlike the wrap and jacket that does not have any self-adhesion to the surface of the pipe, HPC ® does glue itself and adheres directly to the surface of the pipe system. There is no need for equipment to check for adhesion.

**Q** Once installed, Humidity levels must be..XXX?

**A** Once installed, the exterior of HPC ® must be over coated to protect the HPC ® surface from weathering and using SP LIQUID MEMBRANE ® is a monolithic rubber layer that will block moisture and air from entering the HPC ® to protect from humidity.

**Q** Once installed, would any equipment measure if there is air pockets in the insulation?

**A** HPC ® does not work off of air pockets like ROCK WOOL or FIBREGLASS. The ceramics take the place of air pockets by providing such a low density that the heat cannot be absorbed and loaded into the ceramics. This takes the place of air.

**Q** Can they use holiday inspection?

**A** No. The surface of the HPC is very textured and rough. A holiday meter would have a difficult time recording correctly.

**Q** What limitations would they have with the conventional testing of pipes?

**A** Conventional testing involves cutting a hole in the metal, wrap to get to the surface of the pipe to test the surface. It is much easier with HPC, because you can take a knife, cut a small square out of the coating, pull the square out, test the surface of the pipe and replace the square to secure the test area. Conventional damage to the wrap and jacket cannot be effectively repaired. See below.

**Q** They were very precise on knowing how would they test the Adherence?

**A** The HPC ® is very light weight and does not do pull testing well because the coating is pulled apart because of it's being filled with light weight ceramic compounds. It glues to the surface of the pipe like any paint would. They can do the surface cut test as attached to check the tightness of the HPC ® over the pipe.