



HPC applied at 6mm or 1/4" thickness.
Replaced 6" or 150mm of fiberglass and metal jacket. HPC will not absorb moisture to reduce its effectiveness and will not allow corrosion to develop over the pipe surface. Fiberglass will absorb moisture and will allow corrosion to develop over the surface of the pipe. HPC was only 6C higher in surface temperature than the metal jacket surface.

When the engineer said that HPC was not as effective as the wrap and jacket because the exterior temp of the jacket was 27C, I cut a section of the coating off the pipe so that the bare pipe was exposed. I shot the exposed pipe with the heat gun to show 190C. Then I held a piece of notebook paper 25mm over the exposed pipe and shot this with the heat gun to show it was ambient temperature or 27C. This was to show that the 150mm of fiberglass and metal jacket was doing nothing. Within one inch or 25mm off the surface of the pipe and the small amount of wind blowing, showed that the notebook paper alone was 27C because the wind was dissipating the heat away. Fiberglass allows all the surface heat from the pipe to enter or be absorbed into the fiberglass which is how it works. It does not and cannot hold the heat on the surface of the pipe. HPC can and does hold the heat inside the pipe and resist it leaving the surface. This is more efficient and since HPC can be sprayed over all elbows and valves for all configurations, HPC can give a 100% insulation effect when the wraps and jacketing cannot.