

Two Year Saltwater Immersion Simulation Testing

One of the most corrosive environments is sea water, with an approximate 5% salt level.

To prove the effectiveness of the RG (reactive gel) family of products, we tested it in a 5% salt solution.

To make the test more severe, we introduced oxygen to the water through aeration tubes. Also, we used the most porous type of insulation, which is fiberglass.



Both bead blasted pipe and mill scale as received were used in the test. A close-up of bead blasted pipe is above.



The RG reactive gel was spread over the pipe and the fiberglass insulation placed over the bottom portion. The untreated portion acted as a control.

(Note: the gel used to be white. Today it is blue.)

At 31 Days



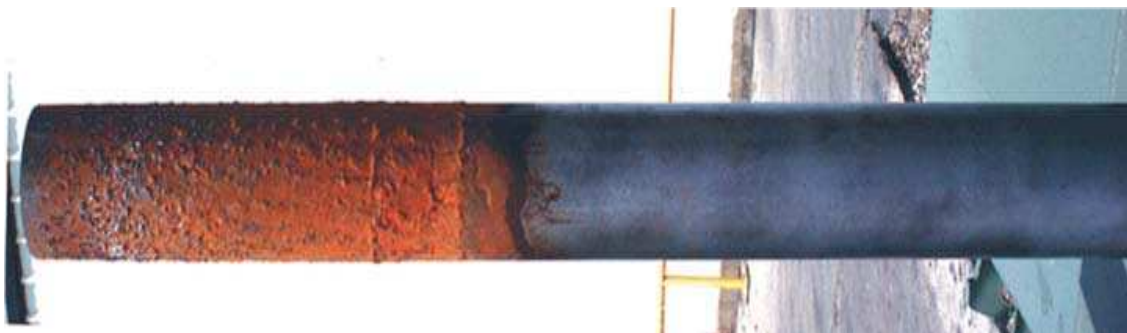
At 31 days, a pipe was removed and cleaned. A difference in corrosion is already apparent. Note the transition area above the tag; at this area the insulation cover slipped down a couple of inches during the test. When this was discovered, all pipes remaining in the saltwater bath had the insulation secured and the test proceeded.



At 81 Days



At 81 days, this sample was removed. This pipe was one of those with mill scale as received. It had no corrosion on the treated area.



At 365 Days



At 365 days, this sample was removed. Inspection showed no corrosion on the treated area.



Corrosion after 365 days



At Two Years



After two years, the insulation had begun to rot, but there was almost no corrosion on the treated area under the insulation.

