

CASE HISTORY

Round Butte Reservoir

DATE

April 2009

CORTEC® REPRESENTATIVE

Alpine Summit Enterprises
Tim Rayburn

SPECIFYING ENGINEER

Greenman-Pedersen, Inc.
(Consultant to CH2MHill)

CONTRACTOR

S & S Coatings

CUSTOMER

Portland Gas & Electric (PGE)

LOCATION

Madras, Oregon

PRODUCTS

MCI® 309 Powder

PROBLEM

Salmon fingerlings were getting too warm when being transferred from the hatchery to open water in the reservoir. A floating structure was created to pump cold water from the reservoir bottom to cool the young fish. The structure sits on large steel flex-floats that are air tight, but were designed to be opened and loaded with sand for ballast. The original design called for painting the interior of this structure however that option proved more costly than the owner desired. Cortec® was consulted to approach the preservation of these floats differently.

APPLICATION


Since the floats sit directly on the water in an arid environment the moisture content was expected to be 2%. The flexi-floats were in two sizes, 8 each 10'x40'x5' deep floats and 7 each 10'x2'x5' deep floats. MCI® 309 powder was selected to be blown throughout the cavity. Cortec® recommended using a 100lb drum (85lbs minimum) on each of the bigger tanks and 50lbs (45lbs minimum) on the smaller ones. Half was to be applied prior to the application of ballast sand and half after. It was also recommended putting panels in the sand by the hatches and looking at them every 6 to 12 months. If any signs of corrosion developed, a regular dose should be added (0.5 ounces/ft³). The contractor chose to place the sand in large bags and hand place them in lieu of bulk sand. After going through this procedure in the first few floats, they recognized that there was less of a need for ballast and the sand was eliminated, but the dosage stayed the same.



MIGRATING CORROSION INHIBITORS
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ch364 4/2010 Page 1 of 2

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CONCLUSION

Cortec's MCI® 309 Powder was chosen as an effective and more cost effective system versus paint. The contractor, owner, and specifier were all pleased with the ease of application, and easy scheduling of installation.

