



Flange & Coupling Protection – New Water Reservoir, Canada

Case Study

Flange & Coupling Protection

New Reservoir, Canada

Location	Canada
Local Environment	New Water Reservoir
Date	October 2020 – Feb 2021
Condition	Dry
Total Coatings	62
Substrate Type	Flanges & Couplings
Duration	80 days

Completed 54" Coupling Assembly



Summary

The client in Canada has approved Oxifree TM198 for the protection of flanges, valves and coupling assemblies in all new potable water infrastructure as well as existing ageing infrastructure.

Introduction

Corrosion is common in these areas due to due to the damp, enclosed environment.

Completed Flange Assemblies



Objective

Oxifree were requested to carry out the coating of Oxifree TM198 on the following: 2 x 54" Coupling Assemblies, 7 x 48" Coupling Assemblies, 5 x 48" Flange Assemblies, 11 x 40" Flange Assemblies, 1 x 54" Blind Flange, 1 x 48" Blind Flange, 7 x 30" Flange Assemblies, 2 x 30" Coupling Assemblies, 7 x 24" Flange Assemblies, 10 x 4" Gate Valves & 9 x 4" Flange Assemblies.

Completed Blind Flanges



Case Study



Process

2 teams of Oxifree application technicians completed the project in 80 days. The Oxifree TM198 was applied directly onto the flange/coupling assemblies after a quick clean with a degreaser.

The application was carried out using the 2 x Oxifree Polymelt 50 application machines (situated on the floor) with 15m hoses.

Solution

A 4mm coat was applied to all areas. The coating, as approved by the client, will ensure the flanges/couplings assemblies are protected for 10 years. No sandblasting required.

In the future, the material is easy to remove for inspection. The anti-corrosion oil also acts as a penetrating oil for any existing corrosion.

Conclusion

Oxifree was deemed as the only viable cost-effective solution for these areas by the client with one of the main attributes being that Oxifree TM198 is quick to apply with no surface preparation required.

Completed 4" Flange Assemblies



Applications Taking Place



Applications Taking Place

