



Protecting Bearings in Food Processing Case Study

OXIFREE[®]
METAL PROTECTION

Eliminating water ingress during high pressure washing on a daily basis

Location	McVities Cake Factory, Halifax
Local Environment	Indoors, Food Processing
Date	June 2015
Condition	Dry
Total Coatings	22
Substrate Type	Bearings
Duration	1 Day

Summary

Oxifree TM198 was used to protect 22 bearings within a food processing area at McVities Cake Factory in Halifax, England.

Introduction

The McVities Cake Factory in Halifax is owned by United Biscuits. United Biscuits wanted to trial Oxifree TM198 on bearings within a food processing area.

Objective

Oxifree were invited to carry out a trial coating of Oxifree TM 198 on a number of bearings which currently suffer from water ingress due to high pressure washing. The purpose of United Biscuits conducting live mechanical trials was to determine Oxifree suitability for future use across all of their UK sites.

Oxifree TM198 was selected as the solution as it required no surface preparation, and with it being 100% organic, contained no substances harmful in the food processing industry.

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METAL PROTECTION

Bearings in the food processing plant



After



Before



After



Case Study



Process

An Oxifree application technician completed the project in 1 day. The Oxifree TM198 was applied directly onto each of the bearings as prescribed by the client. 22 bearings were coated in total using the Polymelt 50 application machine with a 10 metre hose.

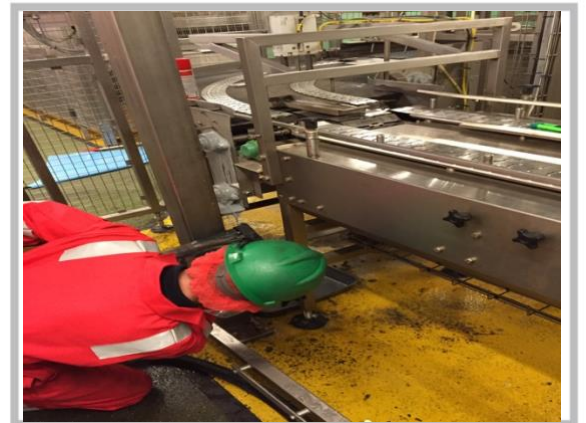
Bearings in the food processing plant



Solution

A 4mm coat was applied to each bearing which equated to approximately 0.1kg per component and the combined man hours for the coating equated to 6 hours for all 22.

The coating, as approved by the operator, will ensure the bearing is protected and prevent any instances of water ingress for 10 years.



Conclusion

A meeting was held with United Biscuits at the McVities Cake Factory in Halifax on Tuesday 3rd November 2015 to discuss the outcome of the trial and the suitability of Oxifree TM198 on the bearings.

The conclusion was that the McVities personnel at Halifax have deemed the coating of the bearings a great success.

Over the 5 month period since the application, there has been no requirement to carry out any maintenance or change out any of the 22 bearings which have been coated in TM198. Historically, these bearings have been changed after approximately 2 months.

