



CASE STUDY: Ancillary Products Add Value

Changing the Course of an Undesirable History

Situation:

A customer was using a competitive ladle coating paste to protect their 2 kg (5 lb) cast iron ladle. Daily application of the ladle coating was required, with the consumption amount of approximately 10 grams (.3 oz). The customer was dissatisfied with the wear and short life of the ladle of less than one week. The customer was also experiencing:

- High ladle replacement costs;
- Production stoppages of 30 minutes every week to change the ladle;

- Thermal shock creating cracks and holes on the surface;
- Daily application to avoid erosion of the surface with applications - sometimes required every 8 hours.

Chem-Trend analyzed the customer's ladle with thermal imaging technology to properly assess the situation.

Solution:

We suggested a test with our product **Wolfrakote® Top Paste**. The ladle was first cleaned to remove any residue, followed by a sand blasting process to open the pore surface to improve adhesion. Two thin layers of **Wolfrakote® Top Paste** were applied along with a slow immersion into the bath to set the treatment.

Benefits:

The customer was able to reduce the application of the coating to only twice per week using a total of 20 grams (.6 oz) of ladle coat. Significant ladle life increases were realized from one ladle a week to approximately one ladle every two months. An estimated 75% cost reduction in annual ladle cost, along with additional cost savings of reducing employee ladle change efforts and production downtime convinced this customer of the **Wolfrakote®** advantage.



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