

CASE STUDY

Soft Drink Manufacturer
(Company name confidential)

Award Winning Energy Saving and Asset Protection Coatings



GEOGRAPHICAL AREA:

Europe

ISSUE:

Save energy on a bottle washing machine and other equipment where fibrous insulation cannot be used.

SOLUTION:

Synavax™ Translucent GP thermal insulation & corrosion prevention coating, for food manufacturing areas.

Coverage: 6-coats Operating Temperature: 71C-144C (160F-291F)

RESULTS:

- ✓ Provided a safe insulation that would not contaminate food sensitive process.
- ✓ Energy Saved on one machine = 398.52 t MMBtu/year
- ✓ Cost Savings on one machine = \$3,682 USD per year
- ✓ Project Payback=13 months

An innovative soft drink manufacturer was seeking a way to save energy on a bottle washing machine and other heat process components, such as steam pipes, valves, and condensate lines. Due to sensitive areas, in many places in their facility they cannot use fibrous insulation (such as rockwool or fiberglass) due to potential contamination.

They chose Synavax™ Translucent GP coating, which is rated as safe for use on incidental food contact surfaces.

They used six coats on the exterior of their bottle washing machine, followed by two coats of a food safe, chemical resistant paint (sourced for them by Synavax™ to withstand the chemicals in their wash-downs).

Comparing the before and after temperatures (which were between 8% to 14% lower) and calculating energy use, they reduced the energy used to run the bottle washing machine by approximately 398.52 MMBtu/year, which equated to a savings of approximately \$3,682 USD in annual energy costs for that machine. Product and shipping costs were \$3,814, and the product was applied by an in house maintenance crew. They realized project payback in 13 months.

According to the U.S. EPA (epa.gov) Greenhouse Gas Equivalencies Calculator, this was a savings of 21.1 metric tons of GHG emissions/year.