



HOT SURFACE COATING™

REFERENCE

CUSTOMER: THE COCA COLA COMPANY
PRODUCTS: HOT SURFACE COATING
MARKET: INDUSTRY & MANUFACTURING
COUNTRY: RUSSIA (COURTESY OF SUPERIOR PRODUCTS VOSTOK)
DATE: 2012



PROJECT DESCRIPTION

Nidan Juices OJSC is a member of The Coca-Cola Company Group (Kotelniki, Moscow Region) - is the largest plant for the production of juices and juice products in Central Russia. The plant was built in 2003. Nidan Juices OJSC works around-the-clock including weekends and holidays. The plant has its own boiler that generates thermal energy for space heating and for providing different technological processes with hot water and steam.

The major part of pipelines is insulated with mineral wool, covered with galvanized iron, but there are open areas with a complex geometric shape of the surface which cannot to be insulated with standard insulation: valves, gate valves, filters, pressure regulators, flanges, etc.

Insulation of open sections of pipeline with energy efficient coating to reduce heat loss values, prevent corrosion under insulation, reduce energy intensity of GDP, increase energy efficiency, to meet Requirements № 261-ФЗ "On energy saving and energy efficiency ..." and ensure personnel safety from burns. To achieve this goal it is necessary to reduce the temperature on the surface to 55°C.

The temperature at the not insulated surface ranges from 159°C to 170°C. Based on the thermotechnical calculations amount of wasted energy is 555.87 Gcal per year.



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COATING SOLUTION

To achieve the rated level of heat losses and temperature reduction at the surface to 55°C, taking into account the complex geometry of the surface, it was decided to apply HOT SURFACE COATING with a layer thickness of 9mm.

(HOT SURFACE COATING is certificated to be used in food production.)

RESULTS

Objects were fully insulated according to the agreed 9mm.

The surface temperature was reduced to a safe level for personnel

Heat losses from the open areas were decreased by 72%

Energy savings in these areas were estimated to be 400.23 Gcal per year

The surface is safely protected from moisture attack and therefore stops corrosion

Projected economic saving of 259 000 RuR per year resulting in a payback period of 3 years.

[SEE PICTURES FROM PROJECTS BELOW]

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Before Application



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After application of HOT SURFACE COATING

