



## Case Study

Henateks  
(Textile manufacturer for Nike,  
Adidas, and others.

### GEOGRAPHICAL AREA:

Turkey

### ISSUE:

Find a better solution for insulation of Dye Machines, Steam Pipe, Steam Boilers and other equipment.

### SOLUTION:

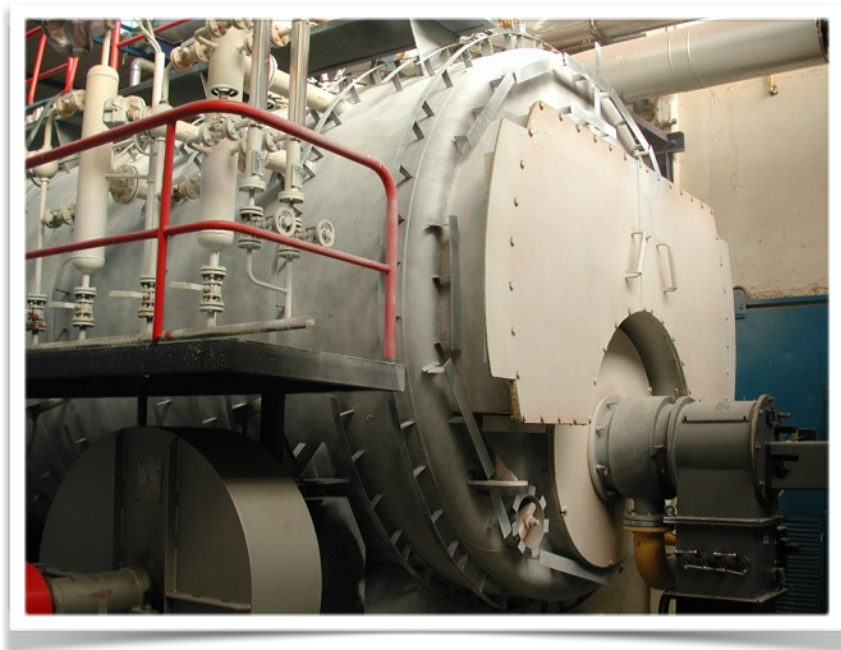
Synavax® High Heat thermal insulation & corrosion prevention coating.

Coverage: 13/15-coats High Heat

### RESULTS:

- ✓ Reduction in energy use of 20%
- ✓ Payback Projected - 7 Months
- ✓ Provides excellent corrosion resistance.
- ✓ Long lasting - 5-10 years.

## Award Winning Energy Saving and Asset Protection Coatings



Henateks is a textile manufacturer for Nike, Adidas, Tommy Hilfiger, and other apparel companies.

Application: Steam Boiler, pipes, heat exchanger, dye machines  
Overall thickness: Between 13-15 coats (650-750 microns dry film thickness)

Sustainable Solutions: Energy use reduction of 20%

*\*Project application was ongoing in 2007 \*\* Factory was not operating at full capacity in 2008*

Project Cost	Liquid Natural Gas Consumption Reduced (Sm3)	Energy Cost Savings	Time to Payback on Project
Materials: \$200,000	2007: 1,114,152*	2007: \$392,275	
Installations: \$100,000	2008: 1,097,447**	2008: \$460,162	
<b>Total: \$300,000</b>	<b>Total: 2,211,599</b>	<b>Total: \$852,437</b>	<b>7 Months</b>



**HENATEKS**  
BOYA VE APRE SANAYİ TİC. A.Ş.

Month	Natural gas consumption per kg of production in Sm <sup>3</sup>	Natural gas unit price in US Dollars/Sm <sup>3</sup>	2006 Average natural gas consumption Sm <sup>3</sup> /kg	Difference in natural gas consumption Sm <sup>3</sup> /kg	2008 Natural gas savings	Savings due to DYS100 (economizer system)	Savings due to Synavax coatings	Synavax Savings in US Dollars
JAN 2008	0,84 m <sup>3</sup>	\$0.32	1,05 m <sup>3</sup>	0,21 m <sup>3</sup>	190.320 m <sup>3</sup>	47.722 m <sup>3</sup>	106.732 m <sup>3</sup>	\$43,752.54
FEB 2008	0,89 m <sup>3</sup>	\$0.32	1,05 m <sup>3</sup>	0,16 m <sup>3</sup>	106.705 m <sup>3</sup>	28.151 m <sup>3</sup>	54.383 m <sup>3</sup>	\$21,232.73
MAR 2008	0,80 m <sup>3</sup>	\$0.32	1,05 m <sup>3</sup>	0,25 m <sup>3</sup>	211.389 m <sup>3</sup>	46.125 m <sup>3</sup>	98.291 m <sup>3</sup>	\$35,501.65
APR 2008	0,74 m <sup>3</sup>	\$0.32	1,05 m <sup>3</sup>	0,31 m <sup>3</sup>	270.694 m <sup>3</sup>	40.688 m <sup>3</sup>	153.241 m <sup>3</sup>	\$57,493.20
MAY 2008	0,78 m <sup>3</sup>	\$0.32	1,05 m <sup>3</sup>	0,27 m <sup>3</sup>	202.608 m <sup>3</sup>	33.662 m <sup>3</sup>	120.804 m <sup>3</sup>	\$47,267.26
JUN 2008	0,73 m <sup>3</sup>	\$0.35	1,05 m <sup>3</sup>	0,32 m <sup>3</sup>	232.213 m <sup>3</sup>	33.904 m <sup>3</sup>	161.697 m <sup>3</sup>	\$68,314.90
JUL 2008	0,78 m <sup>3</sup>	\$0.35	1,05 m <sup>3</sup>	0,27 m <sup>3</sup>	157.674 m <sup>3</sup>	31.413 m <sup>3</sup>	100.890 m <sup>3</sup>	\$45,559.51
AUG 2008	0,82 m <sup>3</sup>	\$0.42	1,05 m <sup>3</sup>	0,23 m <sup>3</sup>	134.701 m <sup>3</sup>	39.109 m <sup>3</sup>	59.100 m <sup>3</sup>	\$31,148.35
SEP 2008	0,82 m <sup>3</sup>	\$0.42	1,05 m <sup>3</sup>	0,23 m <sup>3</sup>	136.108 m <sup>3</sup>	37.899 m <sup>3</sup>	63.425 m <sup>3</sup>	\$30,203.92
OCT 2008	0,77 m <sup>3</sup>	\$0.44	1,05 m <sup>3</sup>	0,28 m <sup>3</sup>	201.116 m <sup>3</sup>	43.164 m <sup>3</sup>	138.494 m <sup>3</sup>	\$59,251.54
NOV 2008	0,88 m <sup>3</sup>	\$0.54	1,05 m <sup>3</sup>	0,17 m <sup>3</sup>	89.130 m <sup>3</sup>	50.102 m <sup>3</sup>	27.926 m <sup>3</sup>	\$13,959.09
DEC 2008	0,92 m <sup>3</sup>	\$0.54	1,05 m <sup>3</sup>	0,13 m <sup>3</sup>	48.285 m <sup>3</sup>	31.678 m <sup>3</sup>	12.464 m <sup>3</sup>	\$6,477.19
Year Total					1.980.943 m <sup>3</sup>	463.617 m <sup>3</sup>	1.097.447 m <sup>3</sup>	\$460,161.90 (\$593,051.87 YTL)

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(Turkish Lira (YTL) figures converted to U.S. Dollars using end month exchange rates from Jan 08 to Dec 08)