



CASE STUDY

Steam Pipe Hospital

Award Winning Energy Saving and Asset Protection Coatings

GEOGRAPHICAL AREA:

Alabama

ISSUE:

Insulate steam pipes that are located in the ceiling of a hospital effectively and using as little space as possible

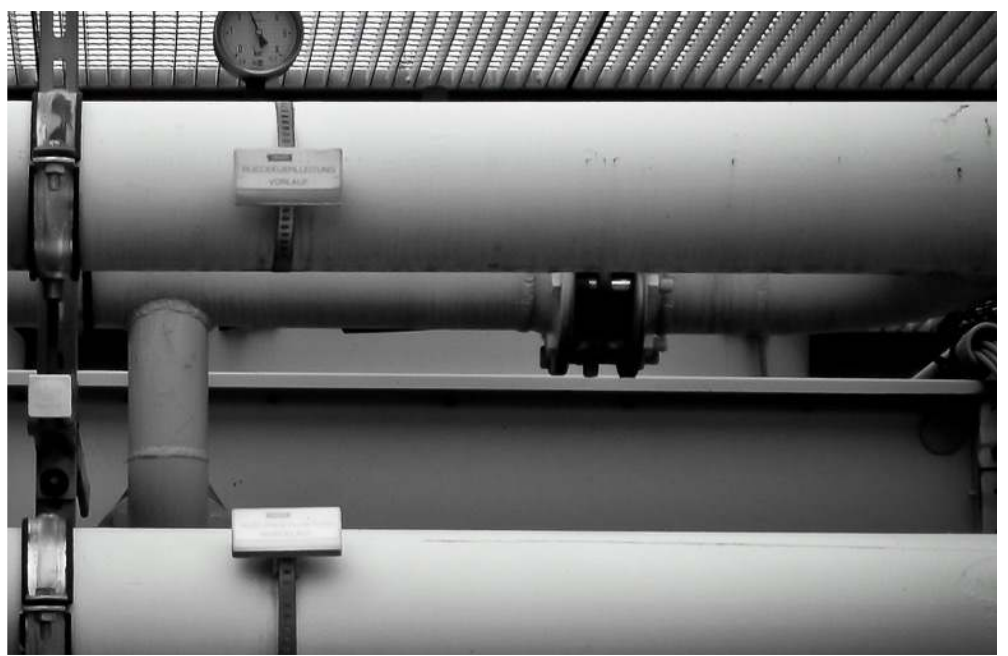
SOLUTION:

Syneffex High Heat Insulation and Anti-Corrosion Coating

Coverage: 8-coats

RESULTS:

- ✓ Reduced exterior surface temperature by 110F (61C)
- ✓ Insulated effectively in a thin layer (about 8/1000ths of an inch)
- ✓ Excellent corrosion resistance
- ✓ Lowered carbon emissions by approximately 162 metric tons per year per 1,000 S.F.
- ✓ Moisture, dirt, and mold resistant - doesn't degrade like traditional fiberglass or foam
- ✓ Easy spray-on application



The Syneffex High Heat was used during a 60-day trial for steam pipe insulation at a hospital.

The application used an 8-coat coverage, which is approximately 8/1000'ths of an inch thickness and provided a **110F (61C) temperature reduction, lowering the surface temperature from 302F (150C) to 192F (88.9C) degrees.** Quite an accomplishment for a thin film coating, but that's the magic of nanoscience and next generation insulation products.

What This Means for the Planet
Great news for the planet is that the projected energy savings and reduction of greenhouse gas (GHG) emissions are significant.

For every 1,000 S.F. of Steam Pipe Surface area Insulated with Syneffex High Heat Coating:

- Annual savings of 3,046.20 MMBtu/year
- Based on today's energy dollars, that's \$8,285.66 USD/year savings on liquid natural gas
- Reduction of 162 Metric Tons of GHG emissions, according to the U.S. EPA's greenhouse gas (GHG) emissions equivalency calculator
- Equivalent savings of 376 barrels of oil per year
- The equivalent of carbon sequestered by 4,141 tree seedlings grown for 10 years.