

PROJECT PROFILE

SMITHFIELD FOODS, INC.

STAYFLEX™ Thermal Insulation Systems

Owner: Smithfield Foods, Inc.
Lincoln, NE

Project Size: 15,000 square feet

KEY BENEFITS:

- Excellent air, moisture and chemical resistance of the STAYFLEX™ System provides superior long-term corrosion protection
- Energy-efficient, seamless application eliminated condensation problems
- Direct application eliminated any concealed spaces, voids or crevices prone to bacteria growth
- The STAYFLEX™ System was installed on weekends to minimize interference with plant operations

PROJECT OVERVIEW:

Smithfield Foods was looking for a USDA compliant, multi-functional coating system to provide the following:

1. Eliminate corrosion and future repainting of steel
2. Protect concrete roof decking from deterioration due to high humidity environment
3. Provide smooth, easy-to-clean surface
4. Eliminate horizontal ledges where water and bacteria can collect

The STAYFLEX™ Thermal Insulation System was chosen because of its' 25+ year proven performance history in wet and high-humidity environments

STAYCELL™ 245-2.0 spray polyurethane foam insulation was applied 1" thick to insulate and protect structural beams & columns, roof decks and walls. The next step was to coat the STAYCELL™ with 1/16" STAYFLEX™ 2505 thermal barrier coating to provide a durable, washable, seamless and fire retardant finish required by building codes for interior applications of polyurethane foam. For added chemical protection and enhanced washability, the contractor applied 10 mils of the STAYCOAT™ 2510 gelcoat topcoat. The final installed product is a seamless, fully adhered, insulated structural composite assembly, having similar strength to high performance products such as fiberglass tanks, chemical piping and corrugated fiberglass (FRP) sheet.

