

## Case Study: Liquid Insulation Application at MOL Plc. Szank Gas Plant

Client: MOL Plc. (MOL Hungarian Oil and Gas Public Limited Company) Location: Szank Gas Plant, Hungary Product: Thermie-S liquid insulation

**Project Overview:** MOL Plc., Hungary's leading oil and gas company, undertook an insulation project at their Szank gas plant to improve energy efficiency and safety. The project involved applying Thermie-S liquid insulation to various components of the gas processing equipment.

**Challenge:** The gas plant had numerous complex pipe systems, valves, and vessels that required effective insulation. Traditional insulation methods were challenging to apply uniformly on irregularly shaped surfaces and often left gaps, reducing overall efficiency.

**Solution:** Thermie-S liquid insulation was chosen for its ability to conform to complex shapes and provide seamless coverage. The product's ease of application and effectiveness in reducing heat transfer made it an ideal choice for this industrial setting.

**Implementation:** The application process involved several steps:

1. **Surface Preparation:** Equipment surfaces were cleaned and prepared for insulation application.
2. **Masking:** Areas not requiring insulation were carefully masked off to ensure precise application.
3. **Application:** Skilled workers in protective gear applied the Thermie-S liquid insulation using spray equipment. The product was applied in multiple thin layers to achieve the desired insulation thickness.
4. **Curing:** The insulation was allowed to cure fully, forming a durable, weather-resistant coating.
5. **Quality Control:** Regular inspections were conducted to ensure uniform coverage and proper thickness.

**Results:** The application of Thermie-S liquid insulation resulted in:

1. Improved energy efficiency due to reduced heat loss from equipment surfaces.
2. Enhanced safety by lowering surface temperatures of hot components.
3. Better protection against corrosion under insulation (CUI).
4. Uniform insulation coverage, even on complex geometries.
5. Reduced maintenance requirements compared to traditional insulation materials.

**Conclusion:** The use of Thermie-S liquid insulation at MOL Plc.'s Szank gas plant demonstrated the product's effectiveness in industrial applications. The project showcased how innovative insulation solutions can address the challenges of complex industrial environments, leading to improved efficiency and safety.

