



FOAMGLAS®

Le Tonkin LNG

PROJECT PROFILE

FOAMGLAS® Insulation excels in extreme temperature applications

The Le Tonkin LNG terminal has been in operation since the 1990's. After just two decades of use, the owner, GDF SUEZ, had experienced problems with their Polyisocyanurate (PIR) insulation system.

When they needed to conduct necessary maintenance work on the terminal's various insulation failures, facility maintenance encountered issues with the extreme temperature ranges of the LNG application. The challenge was conducting insulation maintenance at temperatures in the -160°C range, which can present multiple obstacles.

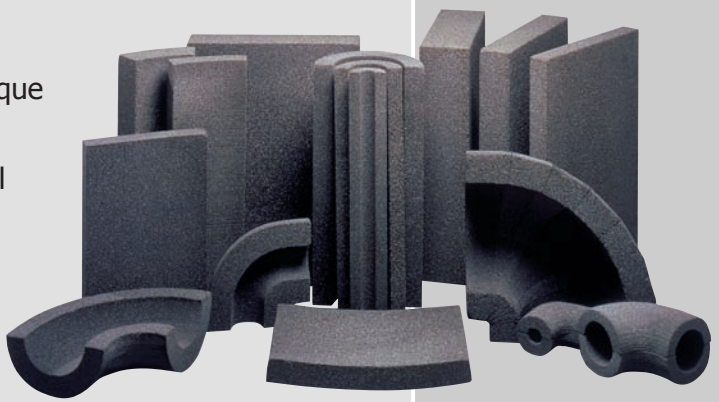
The temperature difference on the outside layer (ambient temperature) and the inside layer (approximately -160°C) could result in the expansion and contraction of the piping, resulting the potential for serious thermal cracking and a possible system failure.

Pittsburgh Corning FOAMGLAS® has developed a unique solution for this specific issue: PC 700k, which is a reinforced glass cloth, and PC 150, which is a special internal mortar to protect FOAMGLAS® Insulation systems from suffering thermal cracking. These combined products offer the ideal solution for this application.

**LNG Terminal -
Maintenance Site**
GDF SUEZ
Fos sur Mer
France

Insulation Contractor
PREZIOSO SAS
Saint Clair du Rhône
France

**FOAMGLAS® Prefabrication
& Coating**
Pittsburgh Corning CR
Klasterec Plant
Czech Republic





The Installation Procedure

- Remove all remaining pieces of the old insulation
- Clean all frost from surface
- Install first layer of FOAMGLAS® with the PC 700K mortar system inside
- Close the outside joints using an alu-butyle tape
- Install the second layer of FOAMGLAS® with Terostat PC-FR coating, factory pre-applied PC 700K mortar system

The joints are sealed with single component non-hardening butyl sealant PITTSEAL 444N. The external joints are sealed with Terostat PC-FR.

Among the several benefits from using this coating method, is a completely weatherproof insulation system that could provide significant labor savings in the future.

Range of Applications

Cryogenic installations (i.e. Ammonia, Ethylen, Propylen, LNG.)

FOAMGLAS®

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