



FOAMGLAS®

The Sea Rose, an Oil and Gas Exploration Ship, is protected from unnecessary fire hazards by FOAMGLAS® Insulation

The Sea Rose is a "floating production, storage and off-loading" (FPSO) ship. Built by Samsung in Korea at a total cost of over 2 billion US Dollars. Construction and onboard installation of the production modules at various locations included. Sea Rose is the second ship of its kind. The first was the Terra Nova. Compared to the first, the Sea Rose has greater production and storage capacity.

This particular FPSO was built for a joint venture between Husky Energy and Petro-Canada, to extract oil from the White Rose oil reservoir about 200 miles (350 kilometers) East of Newfoundland in about 400 feet (approximately 125 meter) of water. This ship will "plug into" an established well on the sea floor, with its flexible hose (reaching down from its forward tower on board) and pump crude oil up, into onboard process & storage areas. When crude is refined, it is either stored (1,000,000 barrels capacity) or "pumped over" to a waiting tanker. The Sea Rose has the ability to avoid icebergs by swiveling on its tether, and still maintaining production at the same time.

FOAMGLAS® cellular glass insulation by Pittsburgh Corning was selected for two important technical reasons. The first is its inherent resistance to moisture. Imagine the damage 50 to 100 foot (15 to 30 meters) salt water waves could do to insulation performance, if it were not resistant to water and chlorides. The choice was clear. Another design criterion was flammability. FOAMGLAS® insulation does not burn, nor does it wick combustible liquids. These combustible liquids can create fire risks unacceptable aboard ships.

Pittsburgh Corning

PROJECT PROFILE

Owner:

Sea Rose Oil Exploration Ship
Husky Energy / Petro Canada
Joint venture

Engineering Consultant & Project Management:

Aker Kvaerner

Insulation Contractor:

Parker Brothers (now Parker
Kaefer)

Pipe Insulation:

FOAMGLAS® Insulation

Pipe Insulation Fabricator:

Pol R Enterprises inc.

Distributor:

Scotia Insulation

Period of Construction:

2003-2005





Approximately 17 container loads of FOAMGLAS® were fabricated and supplied by Scotia Insulation to the Marystown, NL construction site. The FOAMGLAS® pipe insulation was sealed with Pittseal 727 sealant and jacketed with a stainless steel cover. This was done to piping segments in 16 oil production / refining modules constructed on shore and then lifted on board Sea Rose. The ship was then completed and commissioned late in 2005 and producing oil from the White Rose oil field in early 2006.

The Sea Rose FPSO is fulfilling its duty out in the open sea, thoroughly protected by FOAMGLAS® insulation



FOAMGLAS
Industry

Pittsburgh Corning USA
(Corporate Headquarters)
800 Presque Isle Drive
Pittsburgh, PA 15239
Telephone: 724-327-6100
Fax: 724-387-3807

Pittsburgh Corning Europe
(Head office for Europe, Africa
& Middle East)
Albertkade 1
B-3980 Tessenderlo - Belgium
Telephone: +32-(0)13-66-17-21
Fax: +32-(0)13-351-854

Pittsburgh Corning Corporation Asia
(Asia Headquarters)
Pittsburgh Corning Corporation
PARK LUXE HONGO 1001
19-4, Hongo 2-Chome, Bunkyo-Ku
Tokyo 113-0033 JAPAN
Telephone and Fax: +81 50 7554.0248

www.foamglas.com