

Protecting Insulation on Riser Pipes Underwater



Pic. 12 Insulated Riser wrapped in Fibaroll - showing termination to coated pipe - curing in progress

Client: SOFEC

Contractor: Daewoo Shipyard

Terra Nova is an FPSO being constructed in Daewoo Shipyard, South Korea for an oil field off Newfoundland, Canada.



Pic. 1 FPSO

The riser pipes in the turret are insulated with Armaflex NH and the requirement was to protect these pipes from seawater and prevent

corrosion under the insulation. The risers are expected to be under 13m of water and the covering had to prevent compression of the insulation material and have good fire and smoke ratings.

As a result Fibaroll 1.5mm FRLS (fire retardant low smoke) was chosen to cover the insulation.

Why Fibaroll FRLS?

As well as being waterproof, this grade achieves a good fire and smoke rating as defined by the International Maritime Organisations Resolutions MSC 61(67) 1996 and A653(16). Copies of this report are available on our web site. Fibaroll FRLS is halogen free.

Special Requirements

At the termination of the insulated section there was an important requirement and that was for Fibaroll to adhere well to the epoxy coated stainless steel pipe. As the pipe was operating at 70-80 deg cent it was decided to use Fibaroll VEFR (Vinyl Ester Fire Retardant) which has a heat distortion temperature exceeding 120 deg cent. Fibaroll achieves adhesion to steel of c.7N/sq.mm.

FTI are the leading developers and manufacturers of the Fibaroll technology under the strict quality guidelines recognised by the award of ISO 9001 Certificate by Bureau Veritas Quality International.

For technical advice and sales please contact: **FIBA TECH INDUSTRIES**

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Fibaroll Application on Riser Pipes - Terra Nova FPSO January 2000

The following pictures give an idea of the application procedure:

Pictures 1&2. The vessel and inside the turret.
Pictures 3&4. Measuring and cutting Fibaroll.



Pic. 3



Pic. 4



Pic.2 Inside the turret



Pic. 6



Pic. 5

Pictures 5-8.
Peeling carrier film and application of Fibaroll.



Pic. 9



Pic. 10

Pictures 9-11.
Applying Fibaroll in tape form at the termination.



Pic. 7



Pic. 8



Pic. 11

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