



Would you like a corrosion resistant pipework system, easy to install and maintain and with a 50+ year life expectancy?

PetroTechnik introduces an innovative lined polyethylene piping system for oils and fuels across applications spreading from terminals, tank farms, marinas and aviation to remediation.

The Rheomax pipe system uses the same HDPE (high density polyethylene) pipe design and polyamide liner as used in its smaller petroleum pipe system which complies with EN14125 and UL 971 standards.

Rheomax pipe specification includes diameters from 1" to 16", rated operating pressures to 20 bar, compatibility with a wide range of hydrocarbon fuels such as gasoline, diesel, heavy oils, bio-fuels, methanol, ethanol, aviation & marine fuels and chemicals for safe environmental operation.

Rheomax will not corrode, does not require cathodic protection has no ongoing maintenance or inspection requirements and has a long term leak-free service life exceeding 30 years.

The internal barrier layer liner is co-extruded and bonded directly with the PE during the extrusion process and is abrasion resistant. Compared with steel, apart from eliminating corrosion, the pipe design reduces friction pressure losses, pumping pressures and pumping energy costs.

The HDPE is UV resistant and can be installed above or below ground and has high elasticity to absorb ground movement and pressure peaks (water hammer). A full range of tees, elbows and other fittings is available. Other installation benefits include a minimum bend radius of 30 times outside pipe diameter for directional changes.

The Rheomax pipe and fittings have a low installation cost and can simply be welded fast and reliably using electro-fusion fittings or by butt fusion.

PetroTechnik Ltd is ISO 9002 accredited, is the leader in underground polyethylene fuel piping systems with installations in over 150 countries. Over 20,000,000 meters of pipe have been installed with major oil companies and independent operators over 28 years without failure.

Find out more about incorporating Rheomax products into your plans go online at www.petrotechnik.com/rheomax.

**Come and see
us at our stand
No. 111**





Rheomax Terminal

Case Study

Customer profile:
Ólíudreifing, Whale Bay, Iceland.



Deep water fjord to the North of Reykjavik



View from fuel jetty towards tank farm up on hillside



Handling the lined 12" HDPE pipe out of the fusion room



One of the 4 x 40 foot Flat-rack sea containers



DN300 ANSI flanges and flange adapters used



View of 4 of the 9 storage tanks in the tank farm



20 foot sea container used as a dry and secure housing



Pipe line constructed using butt fusion, saving on preparation time



Close up of 315mm lined HDPE pipe in butt fusion machine

Fuels	Diesel, Petrol
Pressure	6 Bar
Flow Rate	1800 m ³ /hour
Diameter(s)	315mm (SDR 13.6)
Pipe Length	2 x 650 m
Year	October 2007
Location	Iceland

“We first used UPP Extra in 1999 when we refurbished the 6” fuel lines at our Patreksfjörður depot. Over the past 8 years we have enjoyed a leak-free and maintenance-free existence. With a life expectancy in excess of 50 years, we expect to reap the benefits of non-corroding polyethylene pipe for many more years to come.”

Árni Ingimundarson,
 Technical Manager at Ólíudreifing

Customer benefits:

- Replaced corroding steel.
- Previous experience of PetroTechnik.
- 50+ years of life expectancy.

