



OUR FLAGSHIP FACILITY

Wasco's Kuantan pipe coating facility - one of the world's most advanced coating facilities - is strategically located adjacent to major shipping routes in the South China Sea. This facility offers complete anti-corrosion coatings, concrete weight coating, internal flow assurance coating, thermal insulation coating, custom coatings and cathodic protection anodes, all in one location. The Kuantan facility also boasts a dedicated pipe storage area and advanced pipe asset tracking system, while its teams are well versed in sorting out logistical matters from the pipe mill to pipe installation locations. It also incorporates advanced HSE features.

Plant Capabilities

	Outer Diameter (")		Length (m)		Application Process
	min.	max.	min.	max.	
Anti Corrosion					
3LPE	4.0"	60"	9m	24m	Spray and Extrusion
3LPP	4.0"	60"	9m	24m	Spray and Extrusion
FBE	4.0"	60"	9m	24m	Spray
DFBE	4"	60"	9m	24m	Spray
AE	4"	48"	9m	13m	Spray and Wrap
Concrete Weight Coating					
Impingement	4"	60"	9m	12.8m	Impingement
Flow Assurance Coating					
Multi-layer polypropylene	4.0"	30"	9m	24m	Spray and Extrusion
Glass Syntactic Polyurethane	4.0"	30"	no limit	13m	Injection Mould
Pipe-in-Pipe	4"	30"	9m	13m	Foaming
Internal					
Internal Epoxy Coating	4"	60"	9m	19m	Spray
internal preservation linepipe	4"	60"	9m	19m	Spray
Custom Coating					
Custom Coatings	4"	48"	no limit	8.5m	Spray
Hanger flanges	4"	60"	no limit	8m	Spray
3 coat systems	4"	48"	no limit	8.5m	Spray
HSS	4"	60"	no limit	13m	Manual
AE bends	4"	60"	no limit	13m	Manual
CWC bends	4"	60"	no limit	13m	Gunnite
Internal preservation bends	4"	60"	no limit	8.5m	Blast
pipe in pipe bends	4"	30"	no limit	8.5m	Foaming



Accreditations

- ▶ **ISO-9001:2008:**
Quality Management System
- ▶ **ISO 14001:2004:**
Environmental Management System
- ▶ **OSHAS 18001:**
Occupational Safety and Health Management System
- ▶ Target to go for **ISO17025**
Laboratory Certification by 2015.

* ALL TYPE OF FLANGES CAN BE COATED INTERNALLY AND EXTERNALLY
IE:- FLANGES, ELBOWS, TEE PIECES, REDUCES, END CAPS, PIPE SPOOLS. IT CAN BE COATED EITHER WITH POWDER OR LIQUIDE EPOXY.

Access Method

Truck

Located within the confines of Kuantan Port, trucking route to plant site is approximately six kilometers on well paved asphalt roads. Trucking services to and from Singapore, Johor Bahru, Port Klang and Thailand are readily available from local transportation companies.

Marine

Multiple load in and load out operations are also possible with Wasco's exclusive jetty and crane, if required. This facility includes 3 multi-purpose cranes with 40 tones of capacity each, and is an all weather deep sea commercial port. The port handles hundreds of thousands of tones of linepipes per annum and has developed into one of the world's leading ports for the import of bare steel and re-export of coated pipes. It has 725m of multipurpose berth, 400m of container berth, 1,510m of liquid/chemical berth and 140m Service Jetty for pipe barges. Located on the east coast of Peninsular Malaysia, frequent feeder vessels ply Kuantan Port from Singapore, Port Klang and Tanjung Pelepas Port where container vessels call.



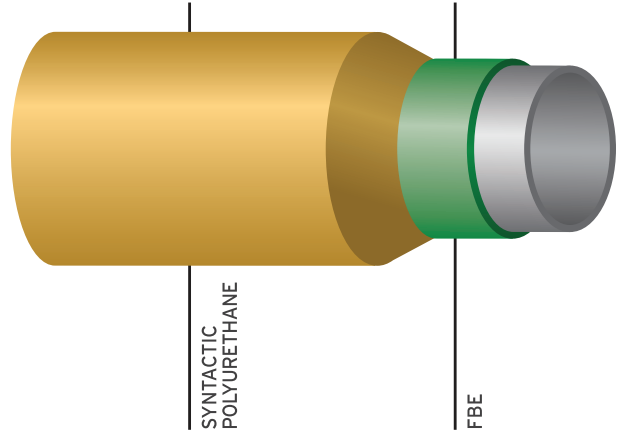
Syntactic Polyurethane

Operating Conditions

Syntactic polyurethane materials are used as thermal insulation for offshore pipelines. The product is customized to take into account specific project requirements, such as water depth and thermal requirements. The product can be laid by all types of offshore lay barge.

Application and Standards

The product is applied by an injection molding process to achieve the specific requirements of project based specifications.



Typical Properties

Description	Typical Value*
Thermal Conductivity W/mk	0.1 to 0.17
U Value Range W/m ² k	1.5 and higher
Water Depth Range	0 to 3000m
Minimum Pipe Diameter	4"
Maximum Pipe Diameter	30"
Minimum Pipe Length	No limit
Maximum Pipe Length	24.0 m
Minimum Operating Temperature	-35°C
Maximum Operating Temperature	115°C

*Typical values are quoted and vary with the grade of material selected.

CORPORATE

WASCO ENERGY GROUP OF COMPANIES

Suite 19.01, Level 19,
The Gardens North Tower,
Mid Valley City,
Lingkaran Syed Putra,
59200 Kuala Lumpur

t +603 2685 6800
f +603 2685 6999
e enquiry@wascoenergy.com

MANUFACTURING PLANTS

Asia Pipe Coating Plant and Anode Foundry

Sub Lot 2, Kawasan Perindustrian
Miel,
Gebeng, KM 25, Jalan
Kuantan-Kemaman,
P.O. Box 240, 25720 Kuantan,
Pahang Darul Makmur, Malaysia
t +609 5838456
f +609 5838459
e enquiry@wascoenergy.com

**Asia
Pipe Manufacturing**
No. 1, Jalan 4, KKIP Timur,
Industrial Zone 13 (IZ13),
Kota Kinabalu Industrial Park,
88460 Kota Kinabalu, Sabah
t +6088 491 377
f +6088 491 387

**Europe
Pipe Coating Plant**
Terminalveien 22,
8624 Mo i Rana, Norway

**USA
Deepwater Insulation Plant**
4611 Curtis Lane,
New Iberia,
LA 70560, USA