

## Kuantan, Malaysia

### PLANT CAPABILITIES SHEET

#### FEATURES AND BENEFITS

Bredero Shaw's Kuantan, Malaysia facility is strategically located near the oil and gas fields in Southeast Asia and the shipping routes in the South China Sea, in order to effectively service local and international clients in the Malaysian and international markets.

With over 700,000 m<sup>2</sup> of plant and pipe storage area available, the Kuantan facility is the largest pipe coating facility in the world. The facility is capable of providing various advanced pipe coating technologies, enabling concurrent execution of multiple projects and product lines.

The Kuantan facility is located adjacent to Kuantan Port, which provides a safe and economical logistic solution for pipe handling and transportation. In addition, priority and dedicated berthings can be made available as well. This will reduce risks of demurrage or laybarge downtime.

Bredero Shaw is the industry leader in providing a safe and healthy workplace. The Kuantan facility has incorporated the latest technology in HSE practices and improved upon the quality control systems that are presently in operation.

#### MANUFACTURED PRODUCTS

COATING TYPE	DIAMETER mm (")		LENGTH m (')	
	MIN.	MAX.	MIN.	MAX.
<b>3LPP:</b> Three Layer Polypropylene Coating	50 (2)	1220 (48)	9.5 (31)	18 (60)
<b>3LPE:</b> Three Layer Polyethylene Coating	50 (2)	1220 (48)	9.5 (31)	18 (60)
<b>FBE:</b> Fusion Bonded Epoxy Powder Coating	50 (2)	1220 (48)	9.5 (31)	18 (60)
<b>Dual Layer FBE:</b> Dual Layer Fusion Bonded Epoxy Powder Coating	50 (2)	1220 (48)	9.5 (31)	18 (60)
<b>AE:</b> Asphalt Enamel Pipeline Coating	50 (2)	1525 (60)	9.5 (31)	12.7 (42)
<b>HeviCote®:</b> Concrete Weight Coating	100 (4)	1525 (60)	9.5 (31)	18 (60)
<b>ThermoFlo®:</b> Polyurethane Insulation Systems	150 (6)	457 (18)	9.5 (31)	12.7 (42)
<b>Thermotite®:</b> Polypropylene Insulation Systems	150 (6)	660 (26)	9.5 (31)	18 (60)
<b>Pipe-In-Pipe:</b> PU Foam Insulated Pipe-In-Pipe	50 (2)	1220 (48)	9.5 (31)	12.7 (42)
<b>SureFlo® FEC:</b> Thin Film Internal Epoxy Coating	254 (10)	1220 (48)	9.5 (31)	18 (60)
<b>Custom Coatings (Internal &amp; External)</b>	100 (4)	1930 (76)	--	6 (20)

#### LOCATION



Anti-Corrosion Coatings



Protective & Weight Coatings



Flow Assurance Coatings



Internal Coatings



Custom Coatings





## Kuantan, Malaysia



### Plant Contact Information

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## ACCESS

### METHOD

### DETAILS

#### 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.
- Bredero Shaw (Malaysia) Sdn. Bhd. (12792-A)  
16m.s. Kuantan-Kemaman Road, Kuantan Port, P.O. Box 172  
25720 Kuantan, Pahang Darul Makmur, Malaysia

#### Marine

- Port of Kuantan
- Kuantan Port is an All Weather Port with 11.2m draft and maximum DWT of 45,000MT for general cargo and 53,000DWT for liquid cargo. It has 725m of multipurpose berth, 600m 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.

## SPECIAL SERVICES

- Custom coating facility for bends, flanges, tees, etc. (Internal, External Liquid Epoxy, FBE, PE & PP coating capability using manual or automatic spray application) bends sizes 4" - 48" OD
- Pipe in pipe fabrication/welding/insulation plant (Polyurethane Foam and Syntactic Polyurethane Insulation)
- Anode Installation
- Buckle Arrestors
- Rebeveling

## PARTIAL LIST OF COMPLETED PROJECTS

PROJECT	PRODUCTS	LENGTH (km)	DIAMETER (")	COUNTRY	YEAR
Bongkot Phase 4A and 3H	3LPE, 3LPP & Concrete	160	8, 12, 16, 18 & 22	Thailand	2009
Gumusut to Kakap Deepwater, Package B	GsPU (Insulation)	40	18	Malaysia	2009
Kumang Cluster	AE & Concrete	256	24 & 28	Malaysia	2009
Pluto LNG	Internal Flow, AE, 3LPP, 4LPP & Concrete	237	20 & 36	Australia	2008-09
Medgaz	Internal, 3LPP & Concrete	226	24	Spain	2007
Dampier to Bunbury Natural Gas Pipeline, Stages 4 & 5A	Internal & 3LPE	500	26	Australia	2006-07
Yemen LNG	3LPE	356	30 & 38	Yemen	2006
PM3 Ca Mau Gas Pipeline	AE & Concrete	327	18	Vietnam	2006
Sakhalin Energy II Phase II	Internal, FBE, 3LPE, AE & Concrete	418	4, 14, 20, 22, 24, 30 & 48	Sakhalin Island	2003-05

## APPROVALS & QUALITY ASSURANCE

- Quality System accredited to BS EN ISO 9001:2000
- Environmental Management System accredited to BS EN ISO 14001:2004
- Occupational Health & Safety Management System accredited to BS OHSAS 18001:2007

## HEALTH & SAFETY

Bredero Shaw is committed to providing a safe and healthy workplace and ensuring that our business activities are conducted in a manner that protects the environment. It is our objective to achieve an Incident and Injury Free workplace, where everyone recognizes that by risking incident or injury, they are putting in jeopardy what they value and those they care for.

## BREDERO SHAW: THE GLOBAL LEADER IN PIPE COATING SOLUTIONS

Bredero Shaw is the world leader in pipe coating solutions, with more than 75 years of experience, over 27 global pipe coating facilities and the largest team of technical and service specialists in the business. Bredero Shaw offers technologically advanced solutions for anti-corrosion coatings, protective and weight coatings, thermal flow assurance coatings, internal coatings, custom coatings and field joints for both onshore and offshore applications. This broad range of products and services provides Bredero Shaw with the unique capability to service the full spectrum of pipeline protection and flow assurance requirements. Consult your Bredero Shaw representative for your unique project requirements.

The information contained herein is indicative of the types of coatings provided by Bredero Shaw, and is not intended to be a guarantee that a particular coating will be suitable for a given application. Since many unique environmental, operating, and design conditions must be considered, the user shall determine the suitability of the coating for the intended use and assume all the risks and liabilities in connection therewith. Bredero Shaw's liability is stated in our standard conditions of sale.