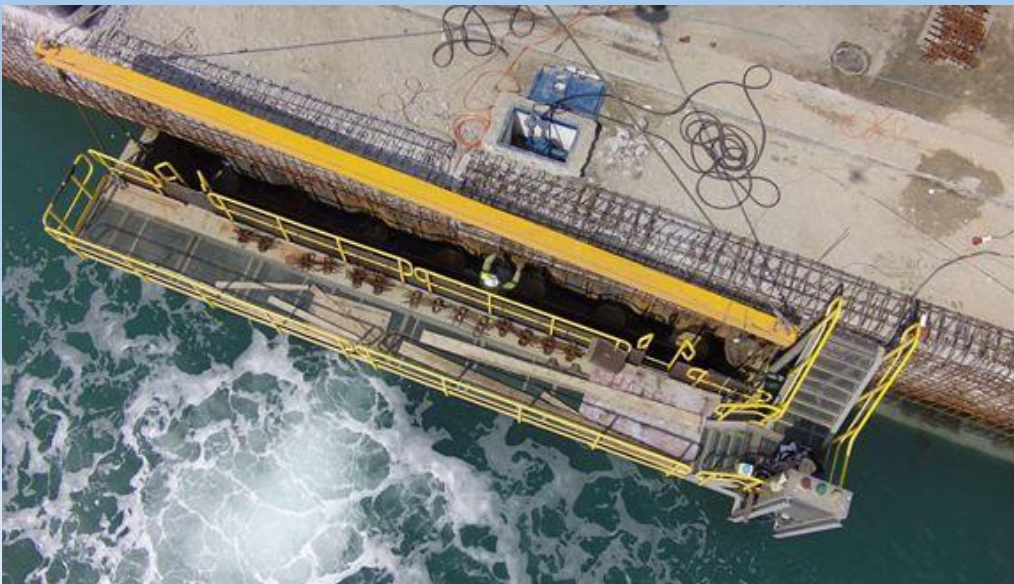# HUMIDUR® Single Coat System

About ACOTEC and HUMIDUR

- **ACOTEC**'s = **A**nti **CO**rrosion **TEC**hnology

- Headquarters based in Belgium

- **HUMIDUR**® = **HUMI**dity + **DUR**ability

MOBILIE COFFERDAM DZI for Submerge Application

- **Safe and dry** access to submerged areas

- No divers required

- Sheet piles, tubular piles, capping beams, …

- **Customisable** for each application

5 Humidur systems covers most structures compared to 100

✓ **Successful in all types of water environment**
- Proven system in salt – brackish – fresh water
- Officially approved for potable drinking water structures

✓ **Ideal for structures in water**
- Works in fully submerged zone, tidal / splash zone and atmospheric zone
- Perfect for pipelines, offshore and marine structures, ballast tanks

✓ **Increased Flow velocity**
- Smooth surface
- Perfect in moving water ➜ increase flow velocity, capacity

✓ **Cures under water**
- Immediate use of structure
- Minimum downtime
- Unique efficiency in coating of submerged and splash zones!

✓ **Single-layer system**
- 1 layer built up to the requested DFT
- No primers required
- Reduced production and application costs substantially

➢ **User friendly; min surface preparation**
➢ **30-year claim-free** system and satisfied customers worldwide
➢ Ideal solution for **Sweating Lines** and **CUI**
➢ **Surface tolerant**: even under **minimal surface preparation** conditions the coating withstands extreme conditions (adhesion values reach up to **25 MPa**)

Proven system in petrochemical environments for decades

Products: Crude oil, Kerosene, Jet Fuel A1, Gasoline, Biodiesel, Palm oil, Sulphuric acid (20%), Hydrochloric acid (32%), Nitric Acid (20%), Waste water
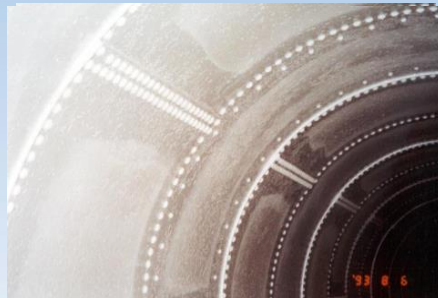
Clients: PETRONAS, MISC, Enquest, Woodside, Brunei Shell, Brunei LNG, Shell, ExxonMobil, Statoil, BP, Marathon, Talisman Energy, Total Oil & Gas, Texaco, Sinopec, Lynergy, Conoco Phillips -Onshore/Offshore, Chevron Offshore, BG Trinidad Offshore, Technip Offshore, BG India Offshore, Reliance Oil Refinery (Largest refinery in the world) India, Transocean Drilling Offshore, Bibby Offshore, Subsea7, Maersk Oil & Gas, Fairfield Energy Offshore, etc.

For enquiries, please contact us at

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Email   :   humidur@jurunature.com
Website   :   www.jurunature.com

Key Benefits

➢ Cost Effective

- ➢ Single Coat
- ➢ Minimal surface preparation and shutdown
- ➢ No Primer and Top Coat required
- ➢ Allows for NDT inspection at 400μm DFT
- ➢ 1/3 losses compared to 3 - layer coating system
- ➢ Up to 30 Year Warranty

➢ Significant Productivity Increase

- ➢ Up to 40% productivity increase over 3-layer system
- ➢ No revisit for 2nd and 3rd coat application - 1 day application time vs. min 3 days for 3-layer system
- ➢ No intermediate curing times for multiple layers
- ➢ Cures Underwater

➢ Increased Window of Application

- ➢ Can be applied :

  - In high humidity conditions i.e. as high as 95% Humidity

  - Within a temperature Range -35°C to 150°C

  - To pH levels $0 < pH < 14$

  - To salt levels < 65 mg/m2

➤ Enhanced HSE Management

- ➤ It is environmentally friendly (no VOC's, no coal tar, no heavy metals, no isocyanates)

- ➤ Eliminates need for multiple solvents/chemical

- ➤ No risk of pollution; solvent free - no heavy metals, coal tar or isocyanates

- ➤ No leaching when curing under water

- ➤ No HSE risk - 100% VOC free

- ➤ Minimum risk of explosion due to higher flash point (>100ºC)

SUMMARY

- ➤ Provides the Asset Owners with the best in class solution to meet the challenge of keeping costs down and increasing productivity

- ➤ Ideal for fabric maintenance activities both offshore and onshore

- ➤ Accreditations include Norsok M-501, IMO, TAMAP, SGS etc

- ➤ Received Shell Global TRT (Technology Replication Thrust) recognition in one layer anti-corrosion coating and is currently being replicated worldwide. Regionally Malaysia, Singapore, Brunei and Philippines have commenced Humidur application

- ➤ Saudi-Aramco approval obtained in February 2017. The tests conducted were far more severe than the Norsok test program