

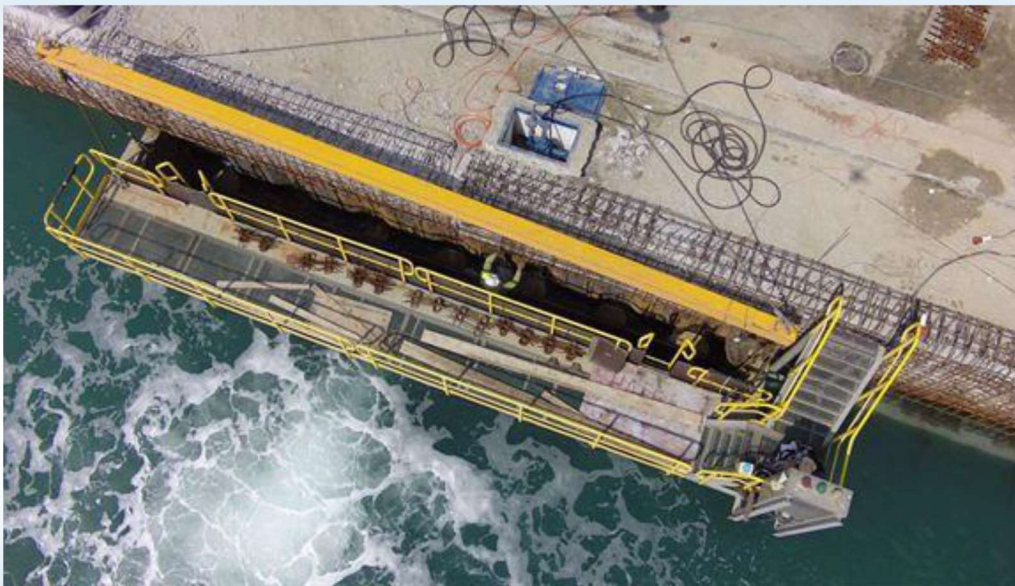
HUMIDUR® Single Coat System

About ACOTEC and HUMIDUR

- **ACOTEC's** = **Anti CO**rrosion **TECH**nology
- 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



For enquiries, please contact us at

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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: Shell, ExxonMobil, Woodside, 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..

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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 $0 < \text{pH} < 14$
 - To salt levels $< 65 \text{ mg/m}^2$



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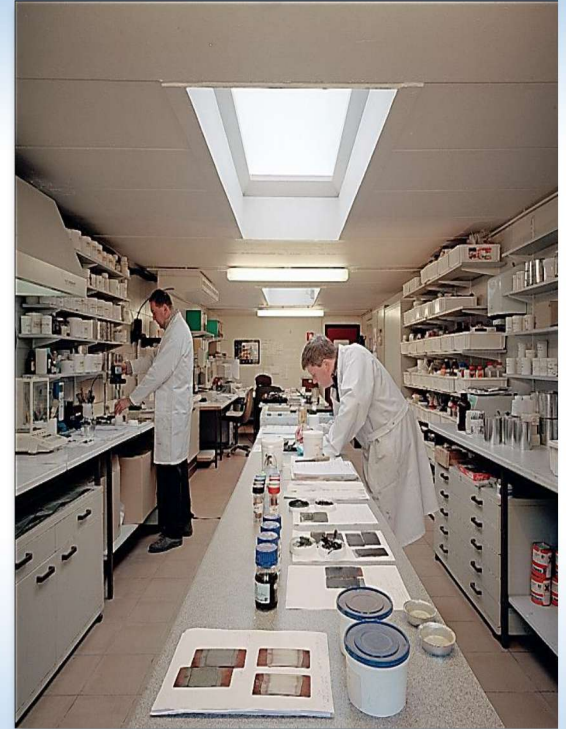
➤ Enhanced HSE Management

- 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 (>100°C)



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



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