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Sheet pile coated with Humidur<sup>®</sup> is still in excellent condition after 18 years (Bergen-Op-Zoom, The Netherlands, coated in 1998)



Application of Humidur Brush on the fire water pipework at Lindsay Oil Refinery— UK



Acotec trains local contractor in Angola to apply Humidur coatings



Humidur applied on jetty support Associated British Ports Surface prep by means of waterjetting





## Chevron eliminates gritblasting

#### Angola

Chevron eliminates gritblasting for its offshore installations by applying the Humidur coatings. Thanks to its surface tolerant properties, Humidur performs extremely well on surfaces prepared by waterjetting or by means of hand tool or mechanical tool cleaning. Hence, the gritblasting step can be omitted, thus saving time and money.

Using alternative surface preparation methods offers many benefits: no containment of work area, no dust development, ability to work in rainy weather, no damage to sensitive areas, less manpower required...



Surface preparation: water jetting and power tool cleaning

# Humidur<sup>®</sup> applied on helideck support Brent Charlie

### **United Kingdom**

The helideck support of the Brent Charlie rig - Shell was showing significant corrosion at the node locations. It required fabric maintenance to maintain the structural integrity, prevent further material loss and solve the issue of potentially dropping objects from corrosion products.

The surface preparation consisted of mechanical preparation using a combination of needle guns and bristle blasters to achieve the St3 standard. The Humidur brush grade was applied directly to the substrate in one layer.

For an area of only 200 m<sup>2</sup>, a total of £70,000 was saved compared to conventional coating systems.



Humidur is used as anti-corrosion coating on the helideck support structure of Brent Charlie, Shell







# Climbing for Life

#### France

Acotec, sponsor of the event, participated in the Climbing for Life weekend. This year, the cycling event was organized to raise awareness about diabetes.

The event was organized in the French Alps and the famous Les deux Alpes was climbed.

Congratulations to all of our colleagues who participated in this event.





### Humidur<sup>®</sup> approved by Petronas

### Malaysia

Acotec is licensed as coating supplier with Petronas.

The Humidur anti-corrosion coatings have been approved to be used on all Petronas' assets.

# Humidur<sup>®</sup> protects Deep Blue—Technip

### Alabama, USA

The Deep Blue is a deepwater pipelay and subsea construction vessel and the flagship in Technip's fleet.

Technip chose Humidur as coating repair system thanks to its unique properties. Humidur is a one-coat system, reducing application costs substantially. It can be applied to St2 and St3 prepared surfaces. Furthermore, Humidur is completely environmentally friendly as it does not contain any solvents or VOC's.



Humidur as coating repair system on Deep Blue — Technip





# Humidur<sup>®</sup> protects Statoil tanks

#### Norway

Humidur is specified as anti-corrosion coating for the internal and external lining of jet fuel tanks of Statoil. Three tanks of the Dolvik depot were coated.

Humidur is selected for its high chemical resistance and its application in one layer reducing costs tremendously.

Humidur was allowed to cure at sub-zero temperatures. Where other systems are limited to 5°C to allow solvents to evaporate, the Humidur solvent-free coating is not.



Humidur as internal and external lining of tanks of Dolvik Depot

## Anti-corrosion protection of tubular piles - C.RO Ports Purfleet Terminal

### United Kingdom

Acotec carried out the corrosion treatment of 60 tubular piles at the Purfleet terminal of C-RO Ports in the UK in tidal conditions. The Humidur coatings are ideal in these conditions as they are a one-coat solvent-free system and cure under water. In one shift of 8 hours, 5 piles were sandblasted and the coating was applied in one layer. The application was done during low tide in dry conditions. The coating cured during high tide under water.



Humidur application in tidal conditions





### Potable water tank refurbishment

### **United Kingdom**

Humidur was applied as anti-corrosion coating in the potable water tanks of the Brent Charlie platform in the UK, operated by Shell. The tanks needed to be refurbished as the existing coating was failing (osmosis failure, delamination, corrosion spots etc.).

Humidur has all the qualifications to be used in contact with potable water. Besides those qualifications, Humidur was chosen for its cost-efficiency. Humidur allows spot and sweep blasting, whereas other coating systems require a full Sa2 1/2 blast. Moreover, Humidur is a one-coat system reducing further costs.

Per potable water tank of 88  $m^2$ , the application of Humidur saved £15,000 compared to alternative coating systems.



Potable water tank

### Coating repairs Thorntonbank Wind Farm

#### Belgium

The coating applied on the Thorntonbank Wind Farm, operated by C-Power, suffers from early corrosion failure. Humidur is used as repair system for both the anti-corrosion coating and the non-skid coating. The surface preparation consists of hand tool and power tool cleaning in accordance with ISO 8501. Humidur is applied in one coat by brush at a thickness of 400  $\mu$ m.



Humidur as repair system



Humidur as non-skid coating







Rehabilitation of the Wandelaarkaai in Ostend, Belgium

## Acotec rehabilitates quay in Ostend

### Belgium

The project, commissioned by the Flemish Government, consists of rehabilitating the combi-wall and tubular piles of the Wandelaarkaai in Ostend.

Safe and dry access is obtained by the patented DZI cofferdam technology developed by Acotec. The mobile DZI cofferdam can be easily modified on-site to fit the different profiles. The equipment provides access to submerged sections in a matter of minutes. Once dry, all rehabilitation procedures can take place in a dry environment.

The quay wall is subjected to heavy corrosion caused by living organisms among others (MIC). MIC is a form of localized corrosion resulting in pitted steel. In the DZI, steel plates can be welded onto the existing steel. Then, the steel is blasted to Sa 2 1/2, after which the anti-corrosion coating Humidur is applied by airless spray.

As Humidur cures under water, the DZI cofferdam can be moved to the next section immediately after application. The combination of the DZI technology and the properties of Humidur, makes Acotec the most qualified contractor for the rehabilitation of submerged structures.



Spraying application inside DZI cofferdam