

HOCKWAY
HUMIDUR

50 years corrosion-free steel from a single solvent-free coating



Hockway bring you Acotec's HUMIDUR®

– a revolutionary solvent-free spray-on coating system to protect pilings in ports and harbours, with a ten-year insured guarantee.

About Acotec

Acotec are the world leaders in providing lifetime lasting solutions for static marine constructions, pipe-lines and other parts of hydro-electric power stations which can be affected by severe corrosion, such as Microbially Induced Corrosion (MIC). The company's proprietary HUMIDUR range of coatings of modified epoxy are solvent and coal-tar free and have a 25-year fully claim-free track record for as long as they've been on the market – almost 25 years.

Application without disruption

Acotec also provide the ideal method to dry inspect, repair and apply HUMIDUR protection to pilings by positioning their unique DZI mobile coffer dam from a barge or by a hydraulic crane.

This method allows for easy access and minimum disruption to your commercial activities. It's the perfect way to fight corrosion, it's environmentally friendly and it's approved by the Scottish EPA.



Above: HUMIDUR application at a busy quay; the DZI is ready for positioning from the barge.



Above: A CORUS facility, protected in 1989 by HUMIDUR.

Below: An inspection proving its lasting properties.



Below: The coffer dam contains 5 floors.

The imminent threat of MIC corrosion

It's difficult to predict when Microbial corrosion will start – the rates of biocorrosion are exponential in comparison to a-biotic corrosion. With the presence of micro organisms, corrosion rates can be 1,000 to 100,000 times greater. Acids easily dissolve steel in an indirect way through microbial intervention. There's even bacteria that eat steel raw.

The problem is easily solved with the high quality, lasting, proven and maintenance-free protective coating HUMIDUR.

HUMIDUR is a line of modified epoxy-based anti-corrosion coating products that are designed to protect steel piling where it's most vulnerable – below and above the waterline, as well as in the splash zone.



The smart application of anti-corrosion cover

One coat of HUMIDUR includes a great deal of long-lasting protection and cost-effective benefits:

- One-coat simplicity
- Faultless protection against MIC, salts, acids and detergents
- No waiting: it cures and hardens underwater
- Minimum disturbance to port and harbour activities
- High bond strength
- Impervious to water, water vapour, chlorines and other ions
- 10 years insured guarantee
- 20 years claim-free success
- Maintained vitality index
- 50 years protection, anticipated
- Environmentally friendly, contains no solvents, coal tar or heavy metals
- Compatible with appropriately designed cathodic protection system



Aberdeen Harbour, photo at about 3m below MLWL. the brown biofilm slid down during dry setting, thus uncovering orange layers of iron oxides. Behind these corrosion products from dissolving steel, the black sludge perforated the steel plate. Water is streaming from the landside into the DZI.

Lasting corrosion protection: in a few simple steps



- 1 *By working from within the DZI we will remove marine growth, scaling and rust deposits and clean to reveal the effects of underwater corrosion.*
- 3 *Berth after dry setting. HUMIDUR applied in 1987 is checked for vitality. Cleaned to allow sticking of the dollies. The bond strength is then measured with the PAT tester.*

- 2 *We will restore the sheet piling by welding reinforcement plates, equipped with nipples to inject the product into the voids.*
- 4 *Dollies are stuck to the coating by means of an adhesive. These will then rupture at the weakest link, i.e. through the glue at 2550 psi or 17,6 MPa.*

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