

UNDERSTANDING ENVIROPEEL

Enviropeel is a unique re-usable thermoplastic anti-corrosion barrier coating system that has been proven to reduce the costs of corrosion and wear by up to 95%.



A durable and flexible solid at normal temperatures, Enviropeel is applied using a self-contained mobile unit which melts and sprays the material to coat any size or shape of substrate, cooling in seconds. Built-in inhibitors are released on to every surface, providing active protection, penetrating deep into every crevice and flowing round every joint. The material forms a tough flexible cocoon around the target area providing an impermeable, corrosion-inhibiting barrier that will protect against ingress and corrosion for the lifetime of the system. Enviropeel is quick to apply, environmentally friendly, easy to strip, re-usable and recyclable with no VOCs or harmful chemicals.

USED AROUND THE WORLD

Enviropeel is used by the mining and oil & gas industries offshore and onshore - on bearings, flanges and valves in Asia, Europe and North America. Applications for power supply companies in the UK are preventing damage from water ingress and, in Australia, Enviropeel is specified for major mining companies, where its use on conveyor systems has increased equipment life cycles by more than 500%. Its environmentally-friendly credentials attracted the US Coastguard for bolt protection on their vessels and its ability to protect in ocean-going environments has been successfully applied to exposed pipework on LPG tankers.

KEY BENEFITS

Increase equipment life by 500%

Prevent contamination & corrosion

Reduce maintenance costs by 85%

Huge reduction in downtime



Top: spraying Enviropeel on a flange joint
 Above: protected flanges on an LPG carrier
 Right: Enviropeel protection on a conveyor bearing and shaft



APPLICATION EQUIPMENT

Enviropeel applications use purpose-built specialized equipment and require trained applicators, either supplied as a service for individual projects, or trained as part of an equipment sales or leasing plan. The units are self-contained and highly mobile with a range of capacities from 7lbs (3.2kg) to 55lbs (25kg). Hose lengths can be up to 60ft (18m). In addition to standard units, Ex-rated units for use in hazardous areas are also available. All material and equipment is manufactured in the US and can be custom-made to suit specific requirements.



LONG-TERM LABORATORY & FIELD TESTING

Enviropeel has undertaken a variety of tests, both in the lab and in the field, that show how well it performs. In-house and 3rd party ASTM B117 hot salt fog testing lasting more than a year showed that areas within the Enviropeel protection zone stayed in perfect condition and other tests, including cryogenic, accelerated UV, pinhole and film integrity testing, have shown outstanding corrosion protection in a variety of aggressive environments. Field trials for the US Coastguard proved Enviropeel's performance on the high seas leading to its adoption for bolting protection on USCG vessels and on LPG Tankers. Following successful testing on rusting flanges in the North Sea, Enviropeel has been approved by Shell for maintenance applications on corroded substrates.

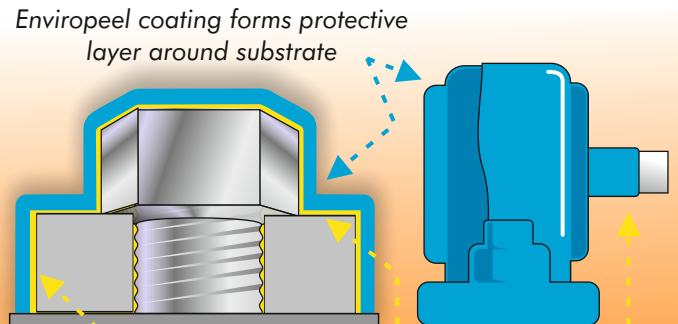
TYPICAL BENEFITS OF USE

- Stops corrosion immediately
- 5 x increase in component life
- Prevents ingress, reducing wear & tear
- Long-term active protection
- Reduces labor & maintenance costs
- Environmentally friendly
- Easy to remove
- Re-usable and waste free

PROTECTIVE MECHANISMS

Passive Protection: Ingress of moisture, debris and other contaminants is prevented by Enviropeel barrier.

Active protection: Inhibiting oil coats all internal surfaces under coating, preventing corrosion process and lubricating moving parts.



Inhibitor coats every surface within the encapsulation protecting and lubricating, allowing shaft to rotate

Although Enviropeel is supplied in blue or grey as standard, it can be manufactured in a range of colors to suit any requirement



Pictured left: Hot salt fog testing for Weatherford on a well-head component. The Enviropeel coating was cut away from the upper bolt before testing, exposing it to the highly corrosive test conditions. The lower bolt was uncovered after the test.

MULTIPLE APPLICATIONS

- Conveyor bearings
- Flanges & valves
- High-voltage switchgear
- Standby equipment & critical spares
- Gearboxes, junction boxes
- Bolted connections
- Dissimilar metal joints
- Replaces petrolatum tape

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