

# Understanding Enviropeel™

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

A durable, flexible material at normal temperatures, Enviropeel is melted in a specially designed mobile unit and sprayed in a hot stream on to the substrate. Built-in inhibitors are released on to the substrate

as the material is sprayed, penetrating deep into every crevice and flowing into every joint. The material hardens to form a tough rubbery cocoon around the target area, sealing in the corrosion inhibitors and

forming a flexible, impermeable barrier that will protect for the lifetime of the system. Enviropeel is environmentally friendly, easy to strip, re-usable and recyclable with no VOCs or harmful chemicals.



## Benefits of Use

- Immediate arrest of corrosion
- Direct reduction in wear & tear
- Payback in as little as one month
- Reduced labor costs and maintenance-related accidents
- Extended component life
- Environmentally-friendly
- Easy to remove

## Multiple Applications

- Bearing housings
- Flanges
- Valves
- Gearboxes
- Junction boxes
- Bolt caps
- Dissimilar metal joints
- Replaces petrolatum tape
- Protection of critical spares

## Enviropeel around the world

Enviropeel is used by the oil and gas industry offshore and onshore, on flanges and valves in the North Sea, North America and Europe. In Australia and the United

States it 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 use on its vessels and custom-designed units are supplied for the protection of vulnerable pipe-work on LPG tankers.



Above: Spraying Enviropeel

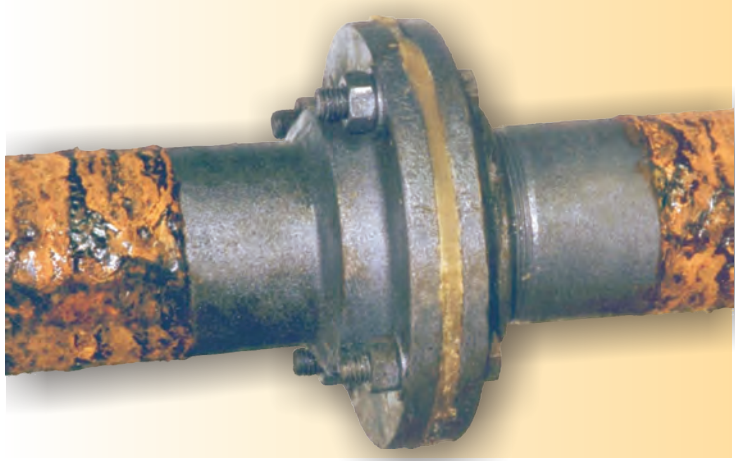
Left: Tagged and protected flanges

Bottom: A carbon steel gear spline after four years exposure in the tropics

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## Testing

Enviropeel has undertaken a variety of tests, both in the lab and in the field, that show how well it performs. The 3000 hour ASTM B117 test, for example, 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 six years of exposure to offshore North Sea conditions have shown no ill effects on Enviropeel - but significant protection for the thousands of coated flanges.



Note the contrast above, after a 3000 hour hot salt fog test. Outside the Enviropeel the steel is severely corroded, inside, even the nuts and bolts are in perfect condition.

Left: An application on a flange in Dubai.



## Application



Enviropeel applications use specialized equipment and require licensed, qualified applicators, either supplied as a service for specific projects, or trained as part of an equipment sales or leasing arrangement. All Enviropeel applications can be tagged and numbered as an integral part of asset maintenance programs, with records of date, ambient conditions and personnel logged for complete traceability. Standard and Zone 2 units are available and, for small jobs and repairs, the Slugger 170 hand-held applicator is inexpensive and simple to use.

## Economics

The cost of an Enviropeel project depends on the complexity, size, location and environment of the substrate. A typical application can save 95% of the cost of repair, and statistics from the mining industry show equipment lifetimes increased by more than 500% - with significant reductions in risk exposure. In high-corrosion areas the cost of application may be recovered in weeks but the long-lasting protection from Enviropeel will save money for years!



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## Contact us

**FENNER  DUNLOP**  
CONVEYOR BELTING AMERICAS

Fenner Dunlop Americas  
1000 Omega Drive, Suite 1400  
Pittsburgh, PA. 15205 USA  
Phone: 412-249-0700  
Fax: 412-249-0701  
[www.fennerdunlopamericas.com](http://www.fennerdunlopamericas.com)  
[www.fennerdunlopconveyorservices.com](http://www.fennerdunlopconveyorservices.com)

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Enviropeel is manufactured and distributed worldwide by the A&E Group. Please contact them at their US office: A & E Anti-Corrosion Systems LLC, 150 Hilden Road, Ste #301, Ponte Vedra, Florida 32081, USA.  
Tel: +1 904 819-8985 Email: [usa@ae-sys.com](mailto:usa@ae-sys.com) Web: [www.ae-sys.com](http://www.ae-sys.com)

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