

# 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.



## 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 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 bolt protection on their vessels and its ability to protect in ocean-going environments has been successfully applied to exposed pipework on a number of LPG tankers.



## Benefits of Use

- Stops corrosion immediately
- Reduces wear & tear
- Long-term active protection
- Reduced labour costs and maintenance-related accidents
- Extended component life
- Environmentally-friendly
- Easy to remove
- Re-usable and waste free

## Multiple Applications

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

Above: Spraying Enviropeel  
Left: Tagged and protected flanges  
Bottom: A carbon-steel gear spline after four years outside in the tropics





Left: A large a complex application on board an LPG tanker  
 Above: Applying from both sides of larger flanges speeds up the operation and helps provide higher coating quality

## 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 are 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, illustrated above, is inexpensive and simple to use. Enviropeel equipment is built to the highest standards and can be custom-made to suit specific applications. The unit shown below, for example is a twin detector unit desinged for use on an ammonia carrying tankers.

The technician shown with the Zone 2, twin-detector unit is holding a remote control air-board which can be magnetically mounted wherever the applicator is working.



## Testing

Enviropeel has undertaken a variety of tests, both in the lab and in the field, that show how well it performs. 3000 hour ASTM B117 testing (see inset pic of sample test piece), 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 LNG Tankers. Sample testing during years of exposure to offshore North Sea conditions have shown no ill effects on Enviropeel but provided significant protection for thousands of protected flanges.



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