

Understanding Enviropeel

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

ENVIROPEEL
THERMOPLASTIC SYSTEMS

A durable, flexible material at normal temperatures, Enviropeel is melted in a specially designed mobile application unit and sprayed as a liquid on to any size or shape of substrate, cooling to a solid 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 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.



Around the world

Enviropeel is used by the mining and oil and gas industries offshore and onshore - on 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.



Benefits of Use

- Stops corrosion immediately
- Reduces wear & tear
- Prevents ingress
- 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
- High-voltage switchgear
- Standby Equipment
- Gearboxes
- Junction boxes
- Bolt caps
- Dissimilar metal joints
- Replaces petrolatum tape
- Protection of critical spares

Above: Spraying Enviropeel

Left: Protected flanges on an LPG carrier

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



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 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. 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 flange applications.



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. The lower bolt was uncovered after the test.

Application

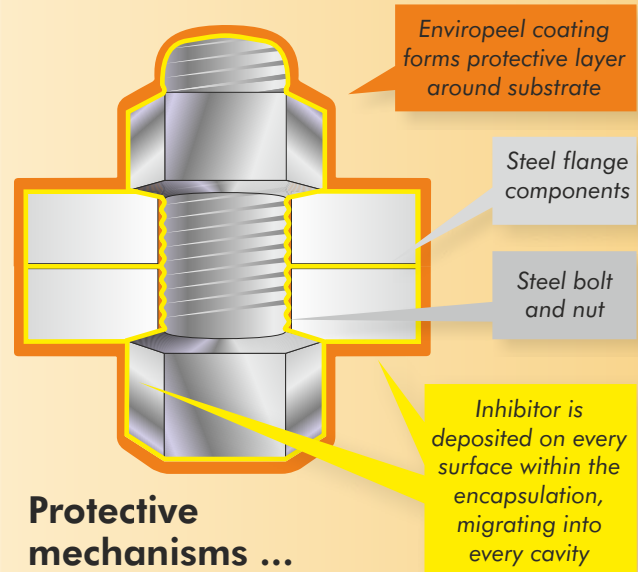
Enviropeel applications use specialized equipment and require licensed, qualified applicators, either supplied as a service for specific projects, or trained as part of an equipment sales or leasing arrangement. Standard and Zone 2 units are available in 18 and 30 kg capacity variants and, for small jobs and repairs, a 5 kg luggable unit or the Slugger 170 hand-held applicator may be used. Enviropeel equipment is built to the highest standards and can be custom-made to suit specific applications.



A standard CA18 Enviropeel unit complete with removable hose box

How it works ...

The diagram shows a simplified cross-section of two components joined by a bolt and protected with a coating of Enviropeel.



Protective mechanisms ...

- ✓ **Passive Protection:** Ingress of moisture and contaminants prevented by perfectly fitting Enviropeel barrier
- ✓ **Active protection:** Inhibiting oil coats all internal surfaces under coating, preventing corrosion process

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



Contact us

For more information you can visit the Enviropeel website or get in touch with one of our international distributors:

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