



INTRODUCING

ENVIROPEEL

THERMOPLASTIC ANTI-CORROSION SYSTEMS



The **Enviropeel** system uses a spray-applied, corrosion-inhibiting thermoplastic coating to provide a tough, impermeable encapsulating barrier that prevents ingress and stops corrosion in its tracks.

WHERE TO USE ENVIROPEEL

- Bearing protection
- Flange & valve joints
- High-voltage switchgear
- Standby equipment & spares
- Replaces bolt caps
- Replaces petrolatum tape

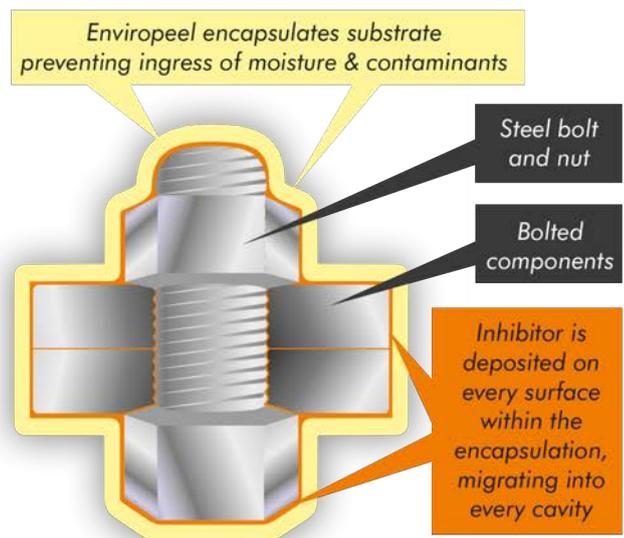
BENEFITS OF USE

- Stops corrosion immediately
- Prevents ingress
- Long-term active protection
- Reduces labor costs and maintenance-related accidents
- Extends component life
- Environmentally friendly
- Easy to remove
- Re-usable and waste free

HOW IT WORKS

Passive Protection: Ingress of moisture & contaminants prevented by impermeable Enviropeel barrier coating.

Active protection: Slow-release inhibiting oil coats all internal surfaces under coating, preventing corrosion.



It can be applied to substrates of any size or complexity and is suitable for use on surfaces where rust is already present. It is non-toxic, environmentally safe, recyclable and reusable. It is available in a range of colors. Enviropeel is used by the mining, oil and gas industries offshore and onshore around the world. On flanges, valves and bearings in Africa, Asia, Australia, Europe and North America. In Australia, Enviropeel is specified for major mining companies, where its use on conveyor systems has increased equipment life cycles by more 500%. After six-year trials on aging wellheads in Europe, Enviropeel was approved by Shell for maintenance applications on corroded substrates.

Enviropeel is tried and tested in the lab as well as in the field. Long-term ASTM B117 hot salt fog testing, lasting over a year showed outstanding results. Other tests, including cryogenic, long-term UV, pinhole and film integrity testing, have all shown remarkable protection against ingress and corrosion in a wide variety of aggressive environments.

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BEARING PROTECTION

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THERMOPLASTIC ANTI-CORROSION SYSTEMS



Enviropeel provides a reliable and cost-effective solution to premature failure in rotating equipment, prolonging bearing lifespans by 500%, dramatically reducing shutdowns and the need for maintenance. A simple spray application of Enviropeel will immediately prevent contamination ingress and stop corrosion in the bearing housing and bolts as well as reducing the need for purging grease.

BEARING TYPE	CHANGEOUT FREQUENCY	COST OF EACH CHANGEOUT	CHANGEOUT COST EVERY YEAR
Every Year		2 units @ \$4500	
Tail Pulley Bearings 8" Pillowblock	8	\$9,000.00	\$72,000.00
Labor costs (2 hrs)	8	\$150.00	\$1,200.00
ESTIMATED PRODUCTION LOSS - 16 HOURS @ \$5000			\$80,000.00
TOTAL COST OF CHANGEOUT REPLACEMENT EVERY YEAR			\$153,200
SAVING USING ENVIROPEEL			
COST OF ENVIROPEEL PROTECTION FOR TWO BEARINGS			\$900.00
STANDARD COST OF BEARING CHANGEOUT X 2			\$9,150.00
TOTAL COST OF BEARING CHANGEOUT INCLUDING ENVIROPEEL			\$10,050.00
75% REDUCED CHANGEOUT FREQUENCY			2
TOTAL ANNUAL CHANGEOUT COST USING ENVIROPEEL			\$20,100.00
ESTIMATED PRODUCTION LOSS - 4 HOURS @ \$5000			\$20,000.00
TOTAL COST OF CHANGEOUT REPLACEMENT EVERY YEAR			\$40,100.00
TOTAL SAVING EVERY YEAR AT FREQUENCY REDUCTION OF ONLY 50%			\$113,100

Debris and moisture accumulate on and around the body of the bearing and are rotated into the bearing, contaminating the grease and damaging the unprotected bearing.

“ In one year we have saved over \$20,000 in bearing costs alone with Enviropeel protection, not including the savings from downtime & replacement labor. We use it to protect all new bearings in high contamination areas. ”

How the System Works

The system uses a specially-designed application unit to apply the Enviropeel material, which is supplied chipped for easy handling. Using patented heating technology, the units melt the material into a liquid which can then be sprayed on to the target substrate. Enviropeel units are completely self-contained with their own hose, spray gun and compressor.

As the material is non-bonding, it not only encapsulates the substrate but it can also be sprayed directly on to the rotating shaft of the bearing. The coating allows the shaft to rotate freely but prevents the build up and entry of debris and moisture into the bearing, providing unrivalled protection. It is manufactured using a UV-resistant thermoplastic polymer that incorporates a slow-release inhibiting oil. The inhibiting oil prevents corrosion in the bearing casing and fixing bolts as well as lubricating the rotating shaft. The Enviropeel thermoplastic material is solid at normal temperatures and, once applied, it cools in seconds to form a tough, perfectly fitting second skin that protects the entire bearing, inside and out.

On a coated bearing, the impervious outer barrier protects the housing and bolts, while the application around the shaft and the material's built-in inhibitors and keep the bearing contamination free.

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