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Extend the shelf life of your spare parts and warehoused equipment

Today Intercept is used to protect everything from satellites and sensitive guidance systems to silver and rubber components from corrosion and degradation.

It is a far cry from traditional methods of countering corrosion.

Developed and Patented by Lucent Technologies Bell Labs, the technology replaces foil barrier packaging and traditional corrosion prevention systems.

A major benefit of Intercept is that it forms a corrosion barrier, rather than the protection provided by foil or volatile systems. As importantly, Intercept is inherently clean, does not contaminate sensitive components and provides passive mildew protection.

Intercept works by using a unique copper formulation that creates an exothermic chemical reaction when combined with a polymer under the heat

and pressure of the compounding (extrusion) process.

This process enables the plastic to act as a large surface, highly reactive copper sheet. Intercept has been used successfully for years protecting everything from satellites and sensitive guidance systems, optical switches, major works of art, sculptures, silver and rubber components to paper, and even guitar strings. The copper in the material helps control the formation and growth of moulds and mildew when in intimate contact with the surface. One hallmark of this new polymer class is that it is so versatile.

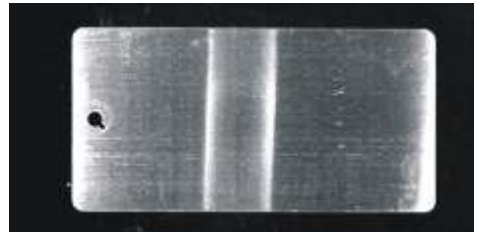
Bell Labs developed the Intercept technology as a way to better protect their own systems. They discovered that corrosion weakens electrical components, making them more sensitive to ESD effects. Also, corrosion adversely effects solderability: it is very difficult to solder through corrosion or oxidation. Intercept keeps surfaces pristine, enhancing solderability and extending the useful operating life of electronic systems and components.

Intercept technology is currently being used by Fortune 500 aerospace and telecommunications companies to provide stable, effective, long lasting corrosion protection .

Intercept technology is not restricted by TRGS 615 & EC REACH limitations.

Us Army TACOM (Tank Command) Evaluation of Intercept barrier material for military packaging SALT-FOG Test Data Compression Days of protection against corrosion

	Intercept	VCIBag	MILPRF131
Metal coupon	Poly 4-mil	Poly 4-mil	Foil/ Poly 5-mil
Steel	102	28	62
Aluminum	130	59	91
Brass	130	28	91
Zinc	97	59	77



Rolls Royce Plc Testing. 1000 Hours Salt Fog then 1000 Hours High Humidity. Protected in an Intercept Bag - No rust/ No corrosion.



Under-Raps™ N.S.W wrapped Sikorsky 58T for shipping as deck cargo protected in Intercept shrink film.

UNDER-RAPS™ Criteria for Packaging Material

- DO NOT HARM WHAT YOU WISH TO PROTECT
- NO-EMITTERS - NO VCIS; NO VOCs
- DO NOT HARM THE HANDLERS
- NO VOLATILE CHEMICALS OR HAZARDOUS CHEMICALS THAT CAN BE TRANSFERRED WITH NORMAL HANDLING
- MAKE IT ROBUST & LONG LASTING
- HAVE IT WORK IN ANY ENVIRONMENT
- MAKE IT FLEXIBLE AND EASY TO USE
- MAKE IT EASY ON THE ENVIRONMENT
- MUST BE RECYCLABLE AND/OR RE-USABLE



ARMORSHIELD + Kits FOR STORAGE OR SHIPPING

- Covers any shape or size
- Applications performed on site
- Quick and convenient
- UV resistant

NOW AVAILABLE IN INTERCEPT ANTI-CORROSION

Stronger than conventional shrink-films

Reduces condensation from forming, which is a problem that often arises with all protective films during climate changes

Reduces surface abrasions and pads surface during transportation and/or storage;

Remains flexible. It will not crack or become brittle even in extreme temperatures ranging from 50° to +180°F;

PRE-FORMED Shrink-Film Kit Manufacturing

How to ship your most precious items



Armorshield+ has become a tried favourite of the Australian marine industry because of its proven capability to seal out moisture, sand and dust.

Made from specially blended resins, Armorshield+ is an advanced tough and durable plastic film that is sewn into a kit which wraps around all or portions of the equipment, regardless of shape or size and is then heat shrunk. A glove-tight skin is formed, sealing out moisture, sand and dust.

The application process is performed on site by Under-Raps or by trained technicians and only takes a few hours.

Very little preparation is required. Armorshield+ can be removed in a matter of minutes, allowing for equipment to be ready for immediate use. Originally designed for all types of fixed and rotary wing aircraft, Armorshield+ offers excellent all-weather protection when transporting equipment on open-bed trucks, rail cars, open deck ocean carriers or during indoor or outdoor storage.



Ready for action

These cocooned CH-46E Sea Knights stand side by side at Naval Air Station North Island, USA. To the untrained eye, the helicopters are barely recognisable as a mainstay of marine aviation.

Rather, they look as if they've been sent to an early grave, ready for decommissioning. However, these battle "phrogs" are just beginning another chapter in their long history and their caretakers are ensuring these birds will be ready to fly when they reach their overseas destination

But before loading the birds, the Marines in effect placed Armorshield+ kits™ around the helicopters and, using heat, shrunk the wrapping around the helicopter contours.

The Marines were instructed by representatives from FPM, the company that developed the "kit" for the CH-46s. They came to Camp Pendleton in early December to introduce the process to the Marines.

"This is the first time our CH-46s have ever been shrink-wrapped," said 2nd Lt. David A King, 36, a Salinas native and HMM-364's assistant aircraft maintenance officer. The shrink-wrapping minimises corrosion and otherwise protects the airframes when transported by ship."

King also noted the Pendleton-based helicopters were used as prototypes for the kits, which FPM developed specifically for this project. East Coast-based CH-46E squadrons are using these kits.



German environmental prize for Intercept®

Congratulations to COMPtrade Technologies GmbH on being awarded a German environmental 1st Prize for “New Environmentally Safe Methods for Corrosion Protection” in recognition of products incorporating Intercept.

Out of over 2000 applicants it was placed second in the 2005/6 overall competition. The prize was presented at an official hand-over on October 6 at Petersberg in Bonn, the guest house of the German Government.

Following the award ceremony there was a fair in Munich from November 21-24. Both events were covered by national television. After the award was handed over, Intercept was promoted in their official documentation which was distributed to every person in each represented company who is responsible for health and safety issues. The fair also focused on the environmental management of all German companies.



Ford Motor Company (SA) engine blocks. A 12 month storage test showed no corrosion took place

Intercept® scoops design award for “Long Life Packaging”

The National Institute of Packaging, Handling, & Logistics Engineers (NIPHLE) has awarded First Place in its design competition for “Long Life Packaging” to the US Army, Stewart & Stevenson Corp, and AIS.

The award presented on June 7, 2006

at NIPHLE's 50th Anniversary, is for the lining of wood crates with Intercept Shrink-film to eliminate the corrosive gases (acetic and formic acids) released by wood and plywood.

For a copy of the full press release relating to the award contact: Warwick Richards at Under-Raps.



Intercept® - Safety & Environment

- Under-Raps Intercept is not a VCI
 - There is no outgassing or VOC issues related to Intercept
 - Intercept was awarded the prestigious environmental award in Germany
 - “Environmentally Friendly and Preferred Anti-Corrosion Packaging”
 - There are no restrictions for Intercept in regards to:
 - TRGS 615 - Intercept is compliant (contains 0 Nitrates / Nitrites)
 - RoHS - Intercept meets RoHS initiative in Europe
 - Fully reusable and recyclable in Europe as a colored PE film (SI)
- CORROSION INTERCEPT® was tested by NASA for contamination - certified for space-flight conditions**



Under-Raps™ Intercept® canvas makes a splash

Intercept Fabric™ is a new outdoor fabric with anti-corrosive and ESD protective properties, offering a durable cover and a corrosive gas scavenging barrier.

The inner layer of Intercept scavenges the gases that cause corrosion, provides galvanic corrosion protection upon contact with the covered item, ensures electro-static discharge (ESD) protection and inhibits mould/mildew from forming on the inside cover surface. Intercept Fabric is a material with which we make reusable form fitting covers.



UNDER-RAPS CORROSION INTERCEPT™ STRETCH FILM

Clean easy to use - No hazardous materials - No contamination - No clean up - No solvents

CORROSION INTERCEPT™
Stretch film protects ferrous and non ferrous metal parts from atmospheric corrosion for years.

CORROSION INTERCEPT™ Film prevents attack from atmospheric gases. Lucent Technologies with Bell Laboratories developed Intercept technology. Tests have been ongoing for more than 10 years.

No hazardous materials are used in the process.

Unlike competing anti-corrosive products, CORROSION INTERCEPT leaves no detectable deposits of oil or any other residual material on the product it protects. Glass, plastics, rubber metals and other parts of assemblies are not affected.

CORROSION INTERCEPT™ has an internal indicator of depletion: the film turns yellow as its level of protection decreases.

CORROSION INTERCEPT™ reduces labor time and effort substantially. The film's easy application eliminates lengthy operations associated with traditional anti-corrosive coatings such as oils and greases.



WITHOUT INTERCEPT



WITH INTERCEPT

