

What is Corrosion Intercept?

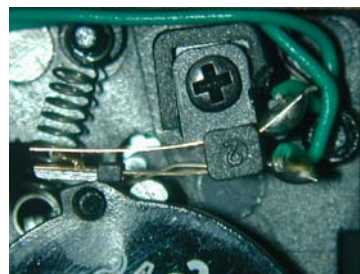
Corrosion Intercept is an exclusive polymer technology developed and patented worldwide by Lucent Technologies Bell Labs. This new technology employs a reactive polymer that actually neutralizes the gases that cause metals to discolor, tarnish and deteriorate. Corrosion Intercept is already in use for the protection of artwork in museums, satellites in space and telecommunications equipment.

How does it work?

- ◆ Metal tarnishes by reaction with common gases in the atmosphere. These gases react with almost all metals to discolor and tarnish them. In electronics, tarnishing causes conductivity loss, which can lead to a variety of real-world problems (see “why do you need Corrosion Intercept Protection?” below).
- ◆ Sulfur and Chlorine—common environmental elements—are the major factors in causing tarnishing. The secret to preventing tarnishing, and the problems it causes, is to keep the Sulfur and the Chlorine from attacking or contacting metal surfaces.
- ◆ Corrosion Intercept is manufactured by reacting Copper into the polymer matrix of standard or normal plastics, like Polyethylene or Polypropylene. The copper acts as a sacrificial, or preferential, corrosion site, reacting with and neutralizing the corrosive gases that are present everywhere in the environment.
- ◆ Corrosion Intercept feels and acts like a normal plastic, but to environmental gases, it acts and looks like a solid sheet of Copper. The gases cannot penetrate the material without hitting an active Copper site, reacting and being neutralized.

Why do you need Corrosion Intercept Protection?

- ◆ Cameras, computers and hand-held electronics all share something in common – they use bare metal (primarily in circuitry), which is susceptible to tarnishing or rusting, and all have very sophisticated electronic components.
- ◆ When the metals used in electronics tarnishes or rusts, the metal gradually goes from being conductive to partially- or non-conductive. Even over the often short (2-3 year) period of time that many people keep a particular device, this can manifest itself in a variety of ways, including clock accuracy problems, degraded keystroke or control reaction, and other “glitches”.
- ◆ Intercept forms a reactive barrier to the gases. It is impossible for these gases to go through Intercept to attack what is inside the bag or pouch:



Close-up of identical camera circuits after simulated 10-year lab tests—
camera on left not stored in Intercept bag, camera on right protected by Intercept.

Corrosion Intercept (Continued)

Suggested Uses:

- ◆ Cameras, binoculars
- ◆ Camcorders
- ◆ Film, magnetic and other storage media
- ◆ Laptop Computers and peripherals
- ◆ Portable Electronics

Corrosion Intercept attributes at a glance:

- ◆ Reacts with, and permanently neutralizes, corrosive gases that tarnish metals and can degrade or damage electronics.
- ◆ Uses no oil, so it cannot coat or contaminate what is inside. Thus, it leaves no deposits on any product it protects.
- ◆ Unequaled long-term tarnish and corrosion protection.
- ◆ Essentially “cleans” trapped air of all corrosive gases.
- ◆ Can improve the performance and extend the life of electronics and cameras.
- ◆ Intercept will prolong and maintain the sparkle and shine of any metal product kept inside the protective bag (though it will not undo pre-existing tarnish).
- ◆ Intercept does not release volatile chemical vapors into the environment and the resin is recyclable as colored polyethylene.
- ◆ Effective protection for virtually all precious and non-precious metals

Corrosion Intercept™ is one of several unique features found in the new *Advanced Protection System* cases from RoadWired. For detailed Lucent Technologies technical and lab data, or other information, contact:



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