

# What Causes Rust?

Rust is the normal electrochemical process of metals returning to their natural unrefined state. It occurs when Iron, Oxygen and Water (air moisture) combine. The rusting process can be accelerated when Iron is subjected to nature's minerals, chemicals and temperature fluctuations.



## Why Does Rust Happen?

Iron and Oxygen have opposite charges so they seek out each other to combine. When they combine, the Iron loses electrons to Oxygen atoms. This is called oxidation and when it happens it produces a chemical reaction forming Fe<sub>2</sub>O<sub>3</sub> Iron Oxide otherwise known as Ferric Oxide, or more commonly known as rust.



**COUPLERTEC COMMERCIAL HEAVY DUTY  
SYSTEMS ALSO PROTECT HEAVY MACHINERY!**



ONLY COUPLERTEC OFFERS GUARANTEED CREDIBILITY!

CouplerTec's unique 'Capacitive Coupling Technology' has been awarded the following International Patents;

Australia 2007236536, Canada 2642716, France 07718629.4, Germany 07718629.4, Switzerland 07718629.4, United Arab Emirates 1021/2008, United Kingdom 07718629.4 and United States of America 7,901,547.

All CouplerTec products are designed, engineered, and manufactured in Australia to strict ISO 9001 Quality Standards and have been tested to CISPR 25 Electromagnetic Compatibility Standards.

### CouplerTec Mission Statement

*The Company's mission is: To provide vehicle owners throughout the world with a proven, environmentally friendly, cost effective method of protection against rust & corrosion.*



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## CouplerTec Capacitive Coupling Technology



FREE CALL 1800 66 78 78

[www.couplertec.com](http://www.couplertec.com)

*The World's Best PROTECTION From RUST!*

## How It Works?

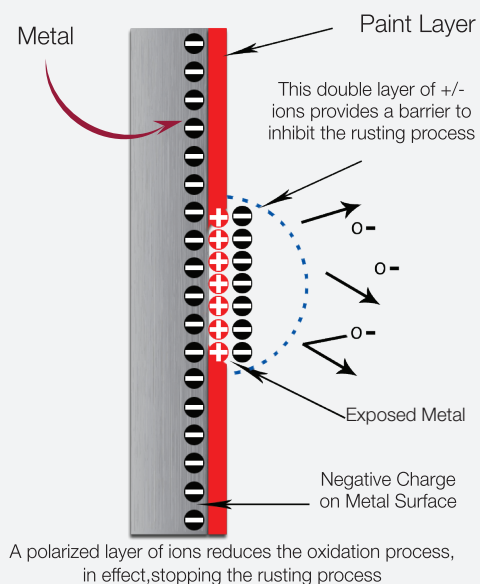
CouplerTec's Patented Technology interferes with the electrical charge between Iron and Oxygen so it becomes hard for them to combine to form rust. In other words, it interferes with the metals ability to react with Oxygen.

We achieve this by creating a negative (-) electrostatic surface charge on the metal surface of the protected structure. The (-) Oxygen atom is repelled by the (-) electrostatic surface charge.

For more detailed information on how CouplerTec works please visit [CouplerTec.com](http://CouplerTec.com)

### The Result

#### When protected by CouplerTec



## Product Benefits



- ▶ 10 Year Corrosion Warranty (conditions apply)
- ▶ Protects 100% of the vehicles metal surface, inside and out\*.
- ▶ Protects parts that rustproofing sprays and coatings cannot reach.
- ▶ Helps stop paint from oxidizing and keeps the paintwork looking like new.
- ▶ Prevents rust damage caused by stone chips and scratches in the paintwork.
- ▶ Systems are Transferable from machine to machine.
- ▶ Once only low cost investment.
- ▶ Reduces maintenance costs associated with corrosion.
- ▶ Will slow existing corrosion.
- ▶ Helps to retain strong resale value.
- ▶ Environmentally friendly (no need for toxic sprays or coatings)

\*Any metal component that is insulated from earth is not protected

CouplerTec™ Commercial Heavy Duty Systems have been specifically designed to provide rust protection for large trucks, buses and heavy machinery. No matter how large the truck, bus or machine, or how corrosive the environment in which it operates, there is a suitable sized system to suit every application. There are five models in this range, ranging in size from Four to Twelve Capacitive Couplers. All systems can operate off either 12V or 24V input.

## Key Product Features

- ▶ Incorporates CouplerTec Capacitive Coupling Technology The ONLY tried tested and proven technology to protect motor vehicles, trucks, buses & machinery from rust and corrosion.
- ▶ Solid State Electronics offers an indefinite life span.
- ▶ Multiple Capacitive Couplers, each charged by their own dedicated circuit.
- ▶ The CouplerTec module incorporates a micro processor that employs a process called 'Monitored & Controlled Performance' This is where the micro processor monitors and controls the performance of the system, ensuring that it is operating at the optimum level. The system confirms that it is working correctly by way of a Green flashing LED, giving you peace of mind that your vehicle or machine is being protected. Conversely, the system will also indicate the detection of a fault by way of a Red flashing LED. The system will reset after the fault has been rectified.



CouplerTec™ is the World leader in the manufacture and supply of Electronic Rustproofing Systems for the Automotive and Heavy Equipment industries. More than 1,000,000 CouplerTec Electronic Rustproofing Systems have been sold Worldwide. CouplerTec's Internationally Patented Capacitive Coupling Technology has a superior reputation for product effectiveness, quality and reliability.