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 Fe₂O₃, Iron Oxide otherwise known as Ferric Oxide, or more commonly known as rust.

Tried, Tested, Proven

CouplerTec Electronic Rustproofing Systems are protecting vehicles and machinery from rust & corrosion throughout Australia and throughout the world! More than 600,000 systems have been sold worldwide. CouplerTec is used and recommended by:

Mining Companies

CouplerTec’s Capacitive Coupling Technology has proven to be the only truly effective Electronic Rustproofing System to be trusted and used in the mining industry to control corrosion. Vehicles and machinery working within the mining industry are exposed to some of the most corrosive environments on Earth.

CouplerTec Electronic Rustproofing Systems are currently being used as the preferred rust proofing method in various mines around the World, this includes gold, silver, copper, salt, coal and mineral mines.

Surf Life Saving Clubs

Surf Life Saving Club vehicles are consistently subjected to the damaging effects of salt water and seaspray. CouplerTec is used and recommended throughout the Australian Surf Life Saving Club fraternity.

Government Authorities

CouplerTec Electronic Rustproofing is the preferred method of rust proofing used by many Local, State and Federal Authorities throughout Australia.

Mining and Electronic Rustproofing

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Commercial Systems for trucks, buses and heavy machinery are also available

Unprotected Vehicle

* Motor Vehicle
* Sheet Metal
* Paint Layer
* Exposed Metal
* Rust

Oxygen combines with iron to form iron oxide more commonly known as rust.

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CouplerTec has been protecting vehicles for the BMA Mitsubishi Alliance mining projects for more than 7 years. Our clients are very happy with CouplerTec.

Ross Fredrickson
Director - Macs Engineering

CouplerTec is the World leader in the manufacture and supply of electronic rustproofing systems for the Automotive and Heavy Equipment industries. More than 600,000 CouplerTec Electronic Rustproofing systems have been sold worldwide. CouplerTec’s internationally patented Coupling Technology has a superior reputation for product effectiveness, quality and reliability.

Thanks to CouplerTec we have saved a fortune on vehicle maintenance costs, and the savings have ensured we spend more on other developments, thanks to CouplerTec.

Rob Pilkington
Vehicle Commissary

MCS

We are very satisfied with how well CouplerTec has protected our vehicles.

Mark McMillan
Emergency Coordinator, Kama 501

Our clients are very grateful that we deliver vehicles that are protected from rust and corrosion. Thanks to CouplerTec.

Macklin Reddy
Vehicle Commissary, Mt Isa Mines

We were amazed at how well the vehicles retained their almost new condition, thanks to CouplerTec.

Mick Hulst
Logan City Council

The Result

When protected by CouplerTec

Paint Layer

This double layer of paint provides a barrier to inhibit the rusting process

Exposed Metal

Negative Charge on Metal Surface

A polystyrene layer of foam reduces the oxidation potential, improving the rusting process

How It Works

Product Benefits

10 Year Corrosion Warranty (conditions apply)

Protects 100% of the vehicle’s metal surface, inside and out.

Protects parts that rustproofing sprays and coatings cannot reach.

Helps stop paint from oxidizing and keeps the paintwork looking new.

Prevents rust damage caused by stone chips and scratches in the paintwork.

Systems are transferable from vehicle to vehicle.

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). (Very metal component that is insulated from earth is not protected)

Key Product Features

Incorporates CouplerTec Capacitive Coupling Technology: The ONLY tried and proven technology to protect motor vehicles, trucks, buses & machinery from rust and corrosion.

Solid State Electronics offers an indefatigable life span.

Multiple Capacitive Couplers, each charged by their own dedicated circuit.

The CouplerTec module incorporates a micro processor that employs a process called ‘Monitor & 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 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.

Automotive Systems Range

2WD Heavy Duty System

This system has been specifically designed to protect motor cars (passengers, sedans, wagons and small vans) from rust. It will also dramatically reduce the effects of corrosion on those vehicles which are frequently exposed to use within highly corrosive environments such as driving on salted roads. In other words, it will extend the life of these vehicles.

4WD System

The 4WD System has been specifically designed to protect the four wheel drive of a SUV vehicle from rust, even when these vehicles are exposed to OCCASIONAL use within highly corrosive environments such as driving on salted roads or beaches. (1) day per month, alternatively, up to two weeks per year. This product is best suited to vehicles that are in reasonably good condition e.g. NO existing rust.

4WD Heavy Duty System

The 4WD Heavy Duty System has been specifically designed to protect the four wheel drive of a SUV vehicle from rust, even when these vehicles are exposed to FREQUENT use within highly corrosive environments such as driving on salted roads or beaches. This system may also benefit older 4WD vehicles that are suffering from minor existing rust problems. (*weekend use)

4WD Extreme Heavy Duty

The 4WD Extreme Heavy Duty System offers the ultimate in protection. Specifically designed to protect four wheel drive vehicles used by Surf Life Saving Clubs and Professional Fisherman, it will dramatically reduce corrosion on four wheel drive vehicles which are exposed to CONSTANT use within highly corrosive environments such as driving on salted roads or beaches. This system may also benefit older 4WD vehicles that are suffering from minor existing rust problems. (*Daily use)

Mining Specification System

The Mine Specification System has been especially designed to offer protection against rust on four wheel drive light mining vehicles. This system will work on those vehicles fitted with battery isolation switches, thus offering protection to the vehicle whilst the vehicle is shut down. This system when fitted correctly will dramatically reduce the effects of rust on mining vehicles which are subjected to highly corrosive environments on a full-time basis.

Exposed Metal

Electronic Rustproofing

ProTection From Rust! GUARANTEED

MCS

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