

PORTS & MARINE



Corrosion protection for harsh marine environments

Container Cranes

CorrosionX Grease lubricates wire ropes on container cranes at most major NZ ports. Sticks to wires at a molecular level, providing long lasting lubrication & corrosion protection. Will not flick off and block critical sensors.

Straddle Carriers & Forklifts

CorrosionX HD lubricates lifting chains at ports around New Zealand. Protects against pin movement. Enables longer service intervals. Highly resistant to wash off because it bonds to metal at a molecular level. Never dries out & does not pick up dust, debris or salt.

Bilges, Bilge Keels & Voids

MaxWax™ is a wax based corrosion inhibitor barrier coating with time release Vapor Corrosion Inhibitor (VCI) technology. Provides long lasting protection in confined spaces - bilge keels, vessel bilges, tug voids, electrical cabinets & tool boxes.

Heron Construction use CorrosionX

- **CorrosionX XD** and **MaxWax** for long lasting protection for barge voids and exposed plant equipment
- **CorrosionX HD** to lubricate and protect crane wires, hydraulic fittings and spindles; corrosion protection for stored wire ropes and parts; workshop assembly compound; prevent galling of stainless steel bolts in marine construction
- **CorrosionX** to waterproof electronics and as a penetrant for seized components
- **CorrosionX Grease** in automatic lubrication systems





CorrosionX

Outstanding penetrant, lubricant & rust inhibitor. Sticks to metal like a magnet, driving out moisture and creating a thin, non-hardening, self-healing film.

- Creeps into the hardest-to-reach cavities & voids
- Apply on wet & corroded surfaces
- Quickly penetrates existing rust, removes moisture, stops electrolysis
- Safe to 39,000 volts, can be welded over, non flammable
- Waterproof electronics & electrics
- Safe on paint, glass, gelcoat, cabling, most rubber, plastics, electronics and monofilament

Application by: aerosol, trigger bottle, wash down gun, sprayer (60psi), brush/wipe/dip.

Available in: 5g, 1g, aerosol (16oz/6oz), trigger bottle.



CorrosionX XD

Medium build (thickened) version of CorrosionX offering longer-term corrosion protection and resilience against the elements.

- Designed to withstand extreme corrosive environments including sulphuric and direct saltwater spray
- Apply on wet & corroded surfaces
- Despite being thicker than standard CorrosionX it does not attract dust & still creeps & penetrates
- Can be atomised to efficiently treat interior cavities such as barge voids

Application by: aerosol, trigger bottle, wash down gun, commercial sprayer, brush/wipe/dip.

Available in: 5g, 1g, aerosol (16oz), trigger bottle.



CorrosionX HD

Thickened-film version of CorrosionX designed for marine environments. Provides maximum protection against moisture intrusion & corrosion. Will still be there long after other products have disappeared.

- Withstands pressure washing & immersion in salt water
- Forms a dripless, dynamic, non-hardening, self-healing film that penetrates existing rust, removes moisture, and stops electrolysis
- Will not dry out, stiffen or crack under stress
- Ideal lubricant for lifting chains and wire ropes – we recommend CorrosionX HD for wires under 15mm & CorrosionX grease for larger wires
- Assembly compound and anti-galling agent

Application by: aerosol, trigger bottle, wash down gun, commercial sprayer, brush/wipe/viper.

Available in: 5g, 1g, aerosol (12oz), trigger bottle, 320ml cartridge.



CorrosionX Grease

High performance, multi-purpose, extreme pressure rated NLGI #2 premium grease combined with a rust killer. Suitable for the toughest marine environments.

- Engineered for maximum shear stability, film strength and heavy shock-load performance
- Over-based calcium sulfanate complex thickener maximises pumpability, water resistance and high dropping point of 286°C
- Superior anti-wear additives lubricate & prevent wear
- Polar bonding ensures grease sticks to metal like glue, ensuring long lasting lubrication & rust protection. Resists "flick-off", keeping machinery & sensors clean
- Ideal lubricant for wire ropes on quay cranes, automatic container cranes & automatic stacker cranes

Application by: 'Viper' or other grease applicator, grease gun (400cc capable), stiff brush, wipe.

Available in: 55g drum, 5g bucket, 15oz cartridge.



MaxWax

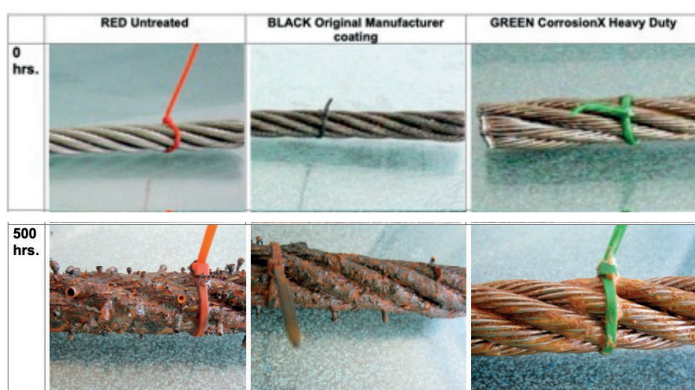
Tough, synthetic wax-based, corrosion inhibitor barrier coating. Forms a smooth, even coating for maximum protection in the harshest environments and underwater.

- Will not harden, crack or lose resiliency. Withstands temperatures from sub zero to >200 °C
- Ultra-thin viscosity allows penetration between and around close fitting components to prevent moisture, gasses or chemicals from causing corrosion
- Fast drying and acid resistant
- Time-release Vapor Corrosion Inhibitor (VCI) for added benefit in confined areas
- Perfect for toolboxes, engine bays and electrical cabinets
- Must be applied to clean, rust-free surfaces

Application by: aerosol, brush (fine).

Available in: 1g, 12 oz aerosol.

Independently-Verified Protection



Veropes Germany has independently tested wires lubricated with CorrosionX HD. The wire protected with CorrosionX HD lasted 59,000 bending cycles, an increase in lifespan of 150% over the unprotected rope. Dulux Laboratories subjected wires protected with

CorrosionX HD to salt spray testing.

The photos show that after 500 hours continuous immersion, the untreated & manufacturer-coated wires were badly corroded. The CorrosionX HD protected wire remained unaffected.

Why Use CorrosionX?

CorrosionX® is the most advanced and effective corrosion prevention compound, lubricant and penetrant in the world. It was designed with harsh coastal and maritime climates in mind. CorrosionX is used by most major NZ ports, by the Royal New Zealand Navy, and across the commercial marine and chain & rigging sectors.

As a Corrosion Inhibitor

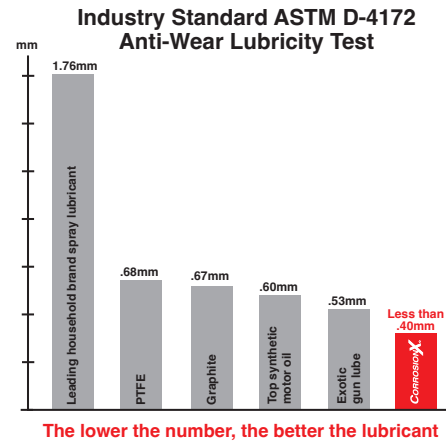
Although it might look similar to other oil-based anti-corrosion sprays, CorrosionX utilises revolutionary Polar Bonding™ and Fluid Thin Film Coating technologies that actually disrupts rust and corrosion on the molecular level (displacing it from the metal surface and keeping it from spreading) and provides long-term protection against rust and corrosion on any metal surface.

As a Penetrant

CorrosionX penetrates faster and further than any penetrating fluid you've ever used. Corroded or rusted nuts, bolts or fittings can usually be disassembled within minutes. Even items you believe to be hopelessly seized can usually be saved and returned to service.

As a Lubricant

CorrosionX's unique formulation offers a multitude of advantages over conventional lubricants. Because Polar Bonding causes it to stick to metal like a magnet, it cannot be easily displaced by pressure, friction or moisture. It lubricates under extreme loads and high temperatures. Not only does CorrosionX lubricate better, it lasts many times longer, especially in outdoor, coastal and marine environments where direct exposure to rain and sea spray will quickly displace ordinary lubricants.



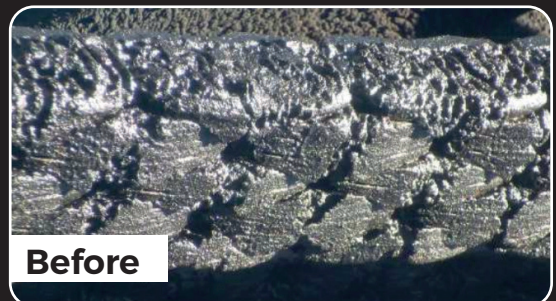
Used by most major NZ ports



CorrosionX grease penetrates between the strands to the core of the rope providing complete rope lubrication. It is also excellent as a penetrating lubricant for chains of all sizes. The grease stays on the rope and therefore keep the cranes clean. We recently won a contract with a big port company that specify that only CorrosionX must be used on their ropes.

Bertus Marks, Shaw's www.shaws.co.nz

CorrosionX HD – the ideal lubricant for lifter chains



Hyster container lifter chain while using oiler system/engine oil for lubrication in Ports of Nelson



Same chain 14 weeks into using CorrosionX Heavy Duty single application