



# CORROSION PROTECTION

## CORROSION OF FERROUS METALS

The rusting process takes place when iron or steel is exposed to atmospheric oxygen in the presence of water. Metal is degraded to form ferric rust which is a red-brown compound.



## CORROSION PROTECTION OF METALS

Three widely used methods of combating corrosion are:

### CATHODIC PROTECTION / BARRIER COATING / CHEMICAL INHIBITION

Zinc rich coatings such as **CRC Zinc It** and **CRC Zinc Blaster** provide cathodic protection by depositing a layer of zinc metal onto the metal surface. The sacrificial zinc replaces iron in the rust, forming a reaction. The reaction product is zinc oxide, which is a fine white solid that can be observed as the film weathers.

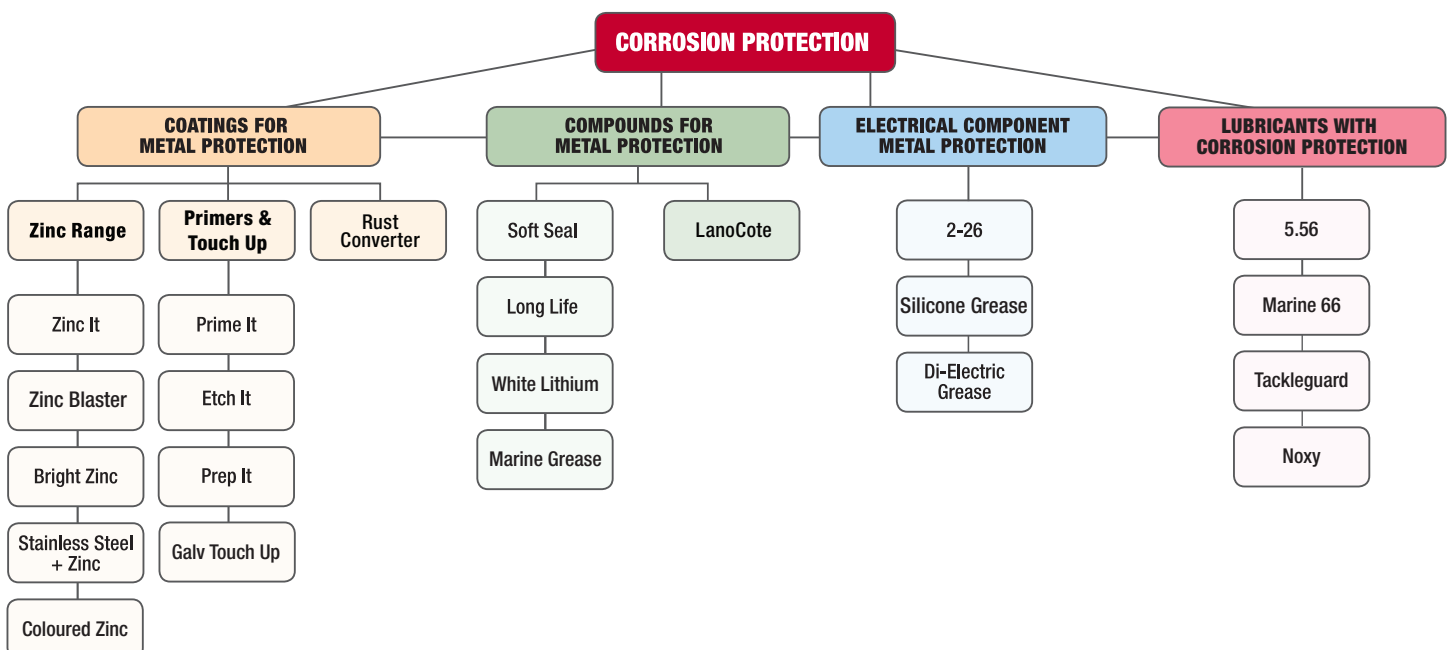
Zinc coatings such as **CRC Bright Zinc** provide barrier protection by way of a very water-resistant film. Cathodic protection is also provided if the protective film is damaged. A high concentration of zinc metal is present in the film and acts as a sacrificial anode when exposed to water and air.

High levels of anti-corrosive pigments are present in CRC Coloured Zincs and they provide a very effective corrosion barrier. The coating has excellent adhesion to bare metal and ensures that the chemical inhibitors in **CRC Coloured Zincs** form an effective protective layer.

**LanoCote** provides a strong hydrophobic barrier coating which will repel moisture. If water is allowed into the film it will be encapsulated by the complex mixture of natural long chain ingredients which will not allow the moisture to contact the metal surface.

**Soft Seal** and **Long Life** contain a lush concentrate of chemical corrosion inhibiting chemicals which interrupt the rust-forming reaction and provide effective corrosion protection to steel surfaces.

## CORROSION PROTECTION – SELECTION GUIDE





## COATINGS *PERMANENT CURE FILM*



### **CRC Zinc It** *Galvanic Rust Protection*

**Codes 2085 Aerosol 350g, 2125 Aerosol 500g, 2185 Tin 1Litre**

A quick drying tough coating that offers the same advantages as hot-dip galvanising. The premium product of its type, CRC Zinc It forms a highly-protective coating with 95% highest purity zinc in the dried film on bare steel or iron surfaces. Ideal for galvanising in need of repair, or as a convenient alternative for hot-dip galvanising. Zinc Purity is 99%

#### FEATURES

- Exceptional long-term corrosion protection – Up to 6 years in harsh conditions
- Easy re-application over existing film and/or clean surfaces – For ongoing protection
- Sacrificial anodisation of Zinc – Stops rust and rust creepage even when scratched, abraded or dented
- Fast drying – Touch dry in 20 minutes, recoat immediately, full cure in 24 hours
- Finish coat – Can act as the finish coat, no need for primer
- Excellent primer – May be over-coated with most standard protective paint systems for metal
- Weld through
- Ready to use aerosol or 1L tin for brush, roller or spray application
- MPI Approved C23



CRC Zinc It



### **CRC Zinc Blaster** *Long Reach, Rapid Dry, Galvanic Rust Protection*

**Code 2130 Aerosol 500ml**

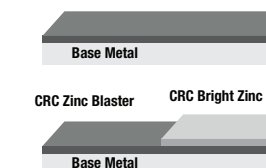
A zinc-rich, wide-coverage, long-reach spray, formulated to quickly provide powerful protection against rust and corrosion with a rapidly drying finish that matches the look of galvanised steel. Ideal for speedy touch-ups and repairs of damaged galvanised surfaces, or as a convenient and easy-to-apply alternative if hot-dip galvanising is not available. Suitable for weld through.

#### FEATURES

- Long Reach - up to 4 x times as far as CRC Zinc It
- Wide Coverage Spray - compared to CRC Zinc It
- Zinc-rich coating – Powerful protection against rust and corrosion
- Dries rapidly for a quick return to service
- Long-term corrosion protection - up to 65 months
- Zinc Purity is 99%
- Galvanised Steel Colour
- Prime – Touch Up – Protect
- Weld through
- MPI Approved C23



CRC Zinc Blaster



### **CRC Bright Zinc** *Galvanic Rust Protection*

**Codes 2087 Aerosol 400ml, 2187 Tin 1Litre**

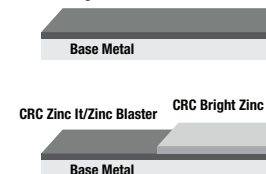
A quick drying coating that combines superior rust inhibiting properties of zinc with a tough but flexible enamel coating and the bright finish of new galvanising. Heavy-duty protection for bare steel or iron surfaces with more than 50% highest purity zinc in the dried film. Ideal for repair of damaged galvanising.

#### FEATURES

- Long-term corrosion protection – Up to 5 years in harsh conditions
- Bright galvanised finish – Ideal for repair of damaged galvanised surfaces to restore rust protection
- Single coat – No overcoating required. For additional protection, prime the metal surface with CRC Zinc It prior to applying CRC Bright Zinc
- Easy re-application over existing film and/or clean surfaces – For ongoing protection
- Sacrificial anodisation of Zinc – Stops rust and rust creepage even when scratched, abraded or dented
- Fast drying – Touch dry in 20 minutes, recoat immediately, full cure in 24 hours
- Weld through
- Ready to use aerosol or 1L tin for brush, roller or spray application
- MPI Approved C23



CRC Bright Zinc





## CRC Stainless Steel + Zinc *Duogalv Bimetal Rust Protection*

**Code 2092 Aerosol 400ml**

A quick drying coating that combines superior rust inhibiting properties of zinc with a tough but flexible enamel coating and a hardwearing stainless steel finish. Heavy-duty protection for bare steel or iron surfaces with more than 50% highest purity zinc in the dried film.

### FEATURES

- Long-term corrosion protection – Up to 4 years in harsh conditions
- Contains Stainless Steel – For durable stainless steel finish, no need for top-coating.
- Single coat – No overcoating required. For additional protection, prime the metal surface with CRC Zinc It prior to applying CRC Stainless Steel+Zinc.
- Easy re-application over existing film and/or clean surfaces – For ongoing protection.
- Sacrificial anodisation of Zinc – Stops rust and rust creepage even when scratched, abraded or dented.
- Fast drying – Touch dry in 20 minutes, recoat immediately, full cure in 24 hours.
- Ready to Use Aerosol – No additional mixing or chemical additives required. Easy application. No clean up.
- Weld through
- MPI Approved C23



CRC Stainless Steel + Zinc

Base Metal

## CRC Coloured Zincs *Heavy Duty Zinc Enriched Anti-Corrosive Coating*

A quick drying coating that combines superior rust inhibiting properties of zinc with a tough but flexible enamel coating and a coloured satin finish in recognised safety colours. High levels of anti-corrosive zinc complexes. Unlike standard paint systems, it resists undercutting and blistering from corrosion by forming an effective corrosion barrier.

### FEATURES

- Long-term corrosion protection – Up to 3 years in harsh conditions
- Exceptional coloured satin finish
- Easy re-application over existing film and/or clean surfaces – For ongoing protection
- Single coat – No overcoating required
- Fast drying – Touch dry in 20 minutes, recoat immediately, full cure in 24 hours
- Weld through
- Ready to use aerosol for all colours. Black Zinc is available in a 1L tin for brush, roller or spray application.
- MPI Approved C23



CRC Zinc It/Zinc Blaster

CRC Black Zinc

Base Metal

CRC Black Zinc

Base Metal



### Black Zinc

**Codes 2089**  
**Aerosol 400ml,**  
**2129 Aerosol 500ml,**  
**2189 Tin 1 Litre**

- Use on fabricated metals, engine parts, starter motors, radiators, engine bays, factory machinery and auto chassis



### Yellow Zinc

**Code 2098**

- Use on safety barriers, fork hoists, construction and mining equipment, fabricated metals, agricultural machinery, factory machinery, electrical motors and gates



### Orange Zinc

**Code 2101**

- Use on safety barriers, fork hoists, construction and mining equipment, fabricated metals, agricultural machinery, factory machinery, electrical motors and gates



### Red Zinc

**Code 2100**

- Use on fabricated metals, surfaces where a red finish is desirable, guard rails, gates, hinges and fences



### Blue Zinc

**Code 2097**

- Use on scaffolding, garage doors, warehouse racking, fabricated metals, agricultural machinery, factory machinery, electrical motors and gates



### Green Zinc

**Code 2096**

- Use on fabricated metals, agricultural machinery, engine parts, engine bays, factory machinery, electrical motors, outdoor furniture and gates



### White Zinc

**Code 2090**

- Use on fabricated metals, surfaces where a white finish is desirable, guard rails, gates, hinges and fences, outdoor furniture and gates



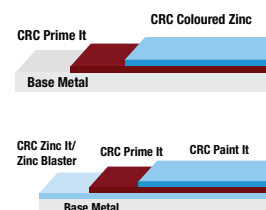
## **CRC Prime It** *Anti Corrosive Primer for Steel*

**Code 2091** Aerosol 400ml

A single pack penetrating shop primer with a red-oxide finish and high levels of anti-corrosive zinc complexes. Does not require overcoating, but can be overcoated if desired.

### **FEATURES**

- Long-term corrosion protection of structural steel and iron
- High levels of anti-corrosive zinc complexes
- Scratch resistant and durable – Withstands harsh outdoor conditions
- Ready to use aerosol – Easy application, no clean up
- Compatible – With most standard paint systems for metals
- MPI Approved C23



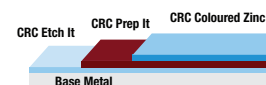
## **CRC Etch It** *Etch Primer for White & Yellow Metals*

**Code 2110** Aerosol 400ml

A single pack etch primer formulated for etching and key-coating bare aluminum, stainless steel, brass, copper and galvanised metal surfaces. It forms a tenacious key coat to provide adhesion for a paint system.

### **FEATURES**

- Compatible – With most standard paint systems for metals
- Ready to use aerosol – Easy application, no clean up
- Fast drying
- Tough durable film
- Effective on clean metals
- MPI Approved C23



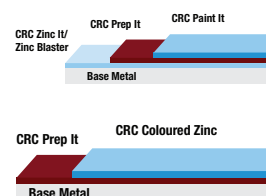
## **CRC Prep It** *Zinc Enriched Anti-Corrosive High Build Easy Sanding Metal Primer*

**Code 2114** Aerosol 400ml

A single pack high-build easy-sanding metal primer with a grey finish. It allows for surface preparation to promote a top quality high gloss topcoat finish. Zinc enriched for corrosion protection.

### **FEATURES**

- General purpose primer and filler coat – Over bare metal
- Intermediate coat – Over CRC Zinc It, Etch It, Prime It, Rust Converter or polyester automotive fillers
- Facilitates high build and surface preparation – Prior to finish coating
- Compatible – With most standard paint systems for metals
- Ready to use aerosol – Easy application, no clean up
- Fast drying
- MPI Approved C23



## **CRC Galv Touch Up** *Corrosion Resistant Bright Silver Finish*

**Code 2083** Aerosol 400ml

A bright silver, fast drying, aluminium rich, corrosion resistant coating for hot-dip galvanised steel and other metal applications such as zinc and aluminium alloys. Provides the appearance of hot-dip galvanised steel as well as all new zinc steel alloys.

### **FEATURES**

- Colour matched to new galvanised steel
- High aluminium content and epoxy binder
- Offers superior protection against corrosion than conventional silver paint products
- Excellent adhesion & durability
- Use for touch up and repair of hot-dip galvanising, other zinc galvanised steel alloys used in metal roofing and repair, pre-primed steel sections and where a bright silver finish is required
- MPI Approved C22



## CRC Rust Converter *Rust Converter and Primer*

**Codes 14610 Aerosol 425g, 3073 Bottle 250ml, 18418 Bottle 1Litre, 3075 Bottle 5Litre**

A unique fast drying coating formulated to stop rust instantly and prevent future rusting. It transforms rust to a tough black primer that binds to the surface and provides a waterproof barrier for effective long-lasting rust protection.

### FEATURES

- One easy step – Stops rust instantly and converts it to an excellent black primer
- Prevents future rusting
- No more sandblasting, heavy scraping, or grinding
- Can act as a finish coat or can be painted over
- Compatible – With most standard paint systems for metals
- No residue to wash off – No clean up
- Fast drying
- MPI Approved C23

## COMPOUNDS *HEAVY DUTY WAX & OIL BASED FILM*



## CRC Soft Seal *Long Term Protection For Metal Surfaces*

**Codes 3013 Aerosol 400ml, 3014 4Litre**

CRC Soft Seal is an aliphatic wax-based long term indoor/outdoor corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse conditions during shipment. Soft Seal will provide protection of equipment subject to heat, humidity, chemicals or corrosive atmospheres.

### FEATURES

- Seals out moisture and corrosive contaminants
- Forms a dry, transparent amber film which is highly resistant to humidity, salt water and salt spray
- Never becomes brittle and will not craze
- Will not attack plastic, rubber, paint or insulation material
- Easily removed with CRC Brakleen or mineral spirits
- Durable – protects for up to 3 years without re-application
- USDA Authorised for use in Federally inspected meat and poultry plants
- MIL Spec: Mil-C-16173D G Aerosol Grade 4, Mil-C-62218



## CRC Long Life *Anti-Rust Lubricant*

**Codes 3097 Aerosol 300g, 3098 Tin 4Litre**

CRC Long Life provides superior lubrication & long term rust prevention to all metals subjected to rust and salt corrosion. It is an excellent lubricant for extending the life of metal to metal sliding/rotating surfaces.

### FEATURES

- Will protect tools, machinery and general equipment over long periods of downtime
- Preserves engine blocks, pistons and components from atmospheric rusting
- Ideal for seasonal “mothballing,” marine engines and corrosion free storage
- Ongoing corrosion protection – Reapplication after 2 years indoors
- Does not require cleaning off prior to use of equipment
- MPI Approved C12
- USDA authorised for use in Federally inspected meat and poultry plants
- MIL Specs: Mil-C-16173D Grade 3; Mil-C-23411; Mil-C-81309; NSN 8030-25-100-4662
- Norwegian Maritime Direct A-30869/84JUF/HO

## NATURAL CORROSION PROTECTION



## CRC LanoCote Natural *Natural Lanolin Corrosion Protection*

**Codes 3020 Aerosol 500ml, 3230 Pot 250ml, 3232 Pot 500ml**

An environmentally friendly natural product which exhibits superior corrosion protection and anti-seize properties. It offers outstanding, long-lasting protection in harsh conditions without compromising treated materials or harming the environment.

### FEATURES

- Versatile – Corrosion inhibitor, anti-seize, release agent, lubricant
- Powerful corrosion protection – Heavy-duty protection in harshest conditions
- Prevents thread-seizure
- Long-lasting – Protecting film does not dry out or wash off
- Non-conductive, non-static – Suitable for electrical work
- Hydrophobic (water-repellant) – Promotes water displacement from surfaces and waterproofs
- Safe to use on metals, plastics, paints, fiberglass, rubber, neoprene, formica and other synthetic materials.
- Non-toxic, non-carcinogenic
- MPI Approved C14



## ELECTRICAL COMPONENT PROTECTION

### **CRC 2-26** *Multi-purpose Precision Lubricant and Corrosion Control for Difficult Environmental Conditions*



**Code 2005 Aerosol 300g**

CRC 2.26 is a plastic safe lubricant, penetrant and corrosion inhibitor that helps prevent electrical malfunction caused by water penetration, humidity, condensation or corrosion and restores electrical properties after water damage. Non-flammable and silicone-free.

#### **FEATURES**

- Ready to Use – No additional mixing or chemical additives required
- Safe – Non-flammable
- Multi Purpose Product – Corrosion Inhibitor, lubricant, penetrant, cleaner
- Preventative Maintenance – Extends operational life and reduces downtime due to unscheduled maintenance and repair
- Repairs water damaged equipment – Restores resistance values. Stops short circuits, leakage, arcing
- Long-lasting Protective Film – Seals out moisture
- Improves electrical properties – For improved efficiency
- Resists Harsh Environmental Conditions – Eliminates breakdowns due to high humidity, salt, air, etc.
- High di-electric strength – Ideal for higher voltage applications
- High capillary action and low surface tension – Great penetrating qualities to break through corrosion
- Plastic Safe – Allows one product to be used in all applications
- Silicone Free
- 360°C Valve – Product can be sprayed from any position even upside down
- MPI Approved C14

### **CRC Silicone Grease** *Corrosion Protection and Lubrication*



**Code 3036 Tube 75ml**

A thin, non-curing silicone grease designed for sealing, lubricating and waterproofing o-rings and other rubber and plastic parts. Insulates valves, electrical contacts, spark plugs, battery terminals, and fasteners from moisture, and protects against corrosion.

#### **FEATURES**

- Seals, lubricates, protects, insulates and waterproofs
- Effective corrosion inhibitor
- Ideal for marine applications
- Temperature resistant – Maintains performance level year round. Will not harden, freeze, dry or melt due to temperature fluctuations
- Safe on most rubber and plastics – Will not degrade seals, gaskets or plastic insulators
- Chemical, oil and water resistant
- Temperature range of -40°C to +200°C

### **CRC Dielectric Grease Select-A-Bead** *Controlled Application Silicone Grease Protection*



**Code 5106 Aerosol 94g**

A pressurised, non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating. The CRC Select-a-Bead™ nozzle gives easy control of silicone bead width and the unique double piston pressurized system provides smooth, uniform dispensing.

#### **FEATURES**

- Maximum protection from corrosion – Seals connectors exposed to the elements
- Ideal for lubricating and sealing rubber and plastic parts, including o-rings. Weatherproofs seals on outdoor junction boxes.
- Maintains electrical insulation and effective conductivity during rain, fog, salt spray and temperature extremes.
- Ideal for marine applications including battery terminals, spark plugs, electrical contacts, shore power inlets, boat electronics connectors, trailer plugs, light bulbs and sockets
- Temperature resistant .Maintains performance level year round. Will not harden, freeze, dry or melt due to temperature fluctuations
- Does not harm rubber and plastics.
- Temperature range of -56°C to +204°C
- Safe on most rubber and plastics – Will not degrade seals, gaskets or plastic insulators



## LUBRICANTS WITH CORROSION PROTECTION



### **CRC 5.56** *Breaks Through Rust And Corrosion*

**Codes 5002 Aerosol 70ml, 5028 Aerosol 210ml, 5005 Aerosol 400ml, 5006 Aerosol 550ml, 5007 Jerry Can w/Applicator 4Litre, 5009 Drum 20Litre, 5011 Drum 200Litre**

Forms a thin film that lubricates moving parts, breaks through rust and helps protect metals from corrosion caused by humidity, salt air and other corrosive atmospheres.

#### **FEATURES**

- Stops and attacks rust – Protective film for ongoing protection against corrosion
- Penetrates quickly – Breaks away rust and corrosion, frees components bonded by dirt and scale
- Advanced lubrication for smooth action – Silences annoying squeaks and squeals
- Eliminates the need for many disassembly operations
- Preventative maintenance programs – To increase life expectancy of mechanical equipment
- Displaces moisture to help start wet engines
- Temperature Range -10°C to +150°C
- MPI Approved C14



### **CRC 5.56 Lite** *Low Odour, No Solvent*

**Code 5034 Aerosol 400ml**

The trusted 5.56 multi-purpose service spray in a low odour, no solvent form. Ideal for areas where odour may be a concern, in confined spaces or where solvent use is regulated.

#### **FEATURES**

- Low odour
- No solvent
- Advanced lubrication for smooth action
- Stops and attacks rust. Protective film for ongoing protection against corrosion
- Penetrates quickly breaking away rust and corrosion. Frees components bonded by dirt and scale
- Particularly useful in areas where odour may be a concern such as retail businesses, medical facilities, schools, vehicle maintenance, kitchens and bedrooms or confined spaces such as production areas, utility/server rooms, boat engine compartments, stairwells and laundry rooms.
- MPI Approved C14



### **CRC 5.56 Industrial** *Advanced Performance for Industrial Applications*

**Codes 5003 Aerosol 550ml, 5016 Trigger 500ml, 5010 Jerry Can w/Applicator 4Litre, 5012 Drum 20Litre**

A high performance variant of CRC 5.56 fortified with PTFE for additional lubricating performance and non-flammable making it safe for use in industrial applications.

#### **FEATURES**

- Non-Flammable – Safe for industrial applications
- Fortified with PTFE – For improved lubrication performance especially when frequent start/stop movements occur
- Long-lasting protective film provides ongoing protection against corrosion
- Penetrates quickly breaking away rust and corrosion. Frees components bonded by dirt and scale
- MPI Approved C14



### **CRC Marine 66** *Superior Protection in The Marine Environment*

**Codes 6006 Aerosol 400ml, 6008 Jerry Can w/Applicator 4Litre**

A multi-purpose oil designed to prevent damage due to water and salt atmosphere in marine engines and boating equipment.

#### **FEATURES**

- Forms a thin film that helps protect metals from corrosion caused by humidity and salt air for extended periods
- Preventative maintenance programme. Increases life expectancy of marine and mechanical equipment
- Penetrates quickly, breaking away rust and corrosion .
- Frees components bonded by dirt and scale
- Lubricates for smooth action – Silences annoying squeaks and squeals
- Displaces moisture to help start wet engines
- MPI Approved C14



## **CRC Noxy** *Anti Corrosion Lubricant*

**Code 3027 Aerosol 400ml**

A multipurpose high strength lubricant with an anti-corrosion formula, which is safe to use on almost any surface and application. Non-toxic, non-staining, non-static and non-conductive. Will not dry out or wash off with water, making it ideal for industrial applications as well as recreational and home use.

### **FEATURES**

- Anti-corrosion formula
- Won't dry out, gum up, become gooey or sticky, or wash off with water
- Non-conductive, non-static, non-toxic, non-corrosive, and non-staining
- Protects, displaces, penetrates and lubricates
- Ideal for industrial applications as well as marine, recreational and home use
- MPI Approved C14



## **CRC Tackleguard** *Superior Corrosion Protection for Fishing Equipment*

**Code 6028 Aerosol 130ml**

Specifically formulated to keep fishing tackle safe from corrosion. Cleans, lubricates, drives out moisture and protects tackle even through periods of storage.

### **FEATURES**

- Fights corrosion, protecting all metal reel parts, terminal tackle, rod guides and knives
- Protects and lubricates all types of fresh and salt water fishing reels
- Braid, nylon and mono fishing line safe formula. Will not damage monofilament, braids, Kevlar, polypropylene, seals and EVA grips.
- Penetrates and drives out moisture leaving a long-lasting film that will not dry out
- Specifically formulated to loosen corroded parts yet not penetrate into gears

## **GREASES WITH CORROSION PROTECTION**



## **CRC White Lithium** *Corrosion Protection for Hard To Reach Areas*

**Code 5037 Aerosol 400ml**

A high-purity white lithium-based grease with an advanced additive package for long lasting lubrication, excellent water and heat resistance, corrosion protection and film strength. Designed for applications requiring a long grease life. Superior performance and durability in any weather and most temperatures. Ideal for heavy-duty metal-to-metal lubrication.

### **FEATURES**

- Aerosol – Easy application, ideal for hard-to-reach areas with Permastraw™ Dual-Action Spray System
- Rust & Oxidation Inhibitors for superior metal protection
- Heat and Water Resistant – Long-lasting lubrication under stressful conditions
- Non-conductive
- Temperature Range – Effective from -18°C to +150°C



## **CRC Marine Grease** *Protection Against Corrosion from Salt Air and Water*

**Code 3121 Pot 397g**

A tacky blue grease specially formulated for use on boat trailers and other marine equipment. Based on an aluminium complex and fortified with an advanced additive package, it provides superior adhesion and excellent water shedding properties, resisting water wash out under the most severe water conditions. It protects from corrosion in salt air and water and other corrosive conditions.

### **FEATURES**

- Resists water wash out – Ideal for boat trailers and other marine equipment
- Corrosion protection – Protects from salt air and water and other corrosive conditions
- Effective in a wide temperature range – From -15°C to +230°C
- For use on all types of boat trailer wheel bearings, water pumps, steering and cable quadrants, 4WD sleeve and anti friction bearings, slides and deck equipment, marine equipment, shaft log seals, steering cables, wharfside machinery, turnbuckles and winches