The easiest and most economical way to remove soluble salt contaminants

CHLOR*RID®

The protective coating industry and corrosion engineers are now more aware of the damage soluble salt contaminants cause than ever before.

Testing for chlorides and sulfates, both qualitative and quantitative methods, is common – and the threshold for acceptable levels is dropping.

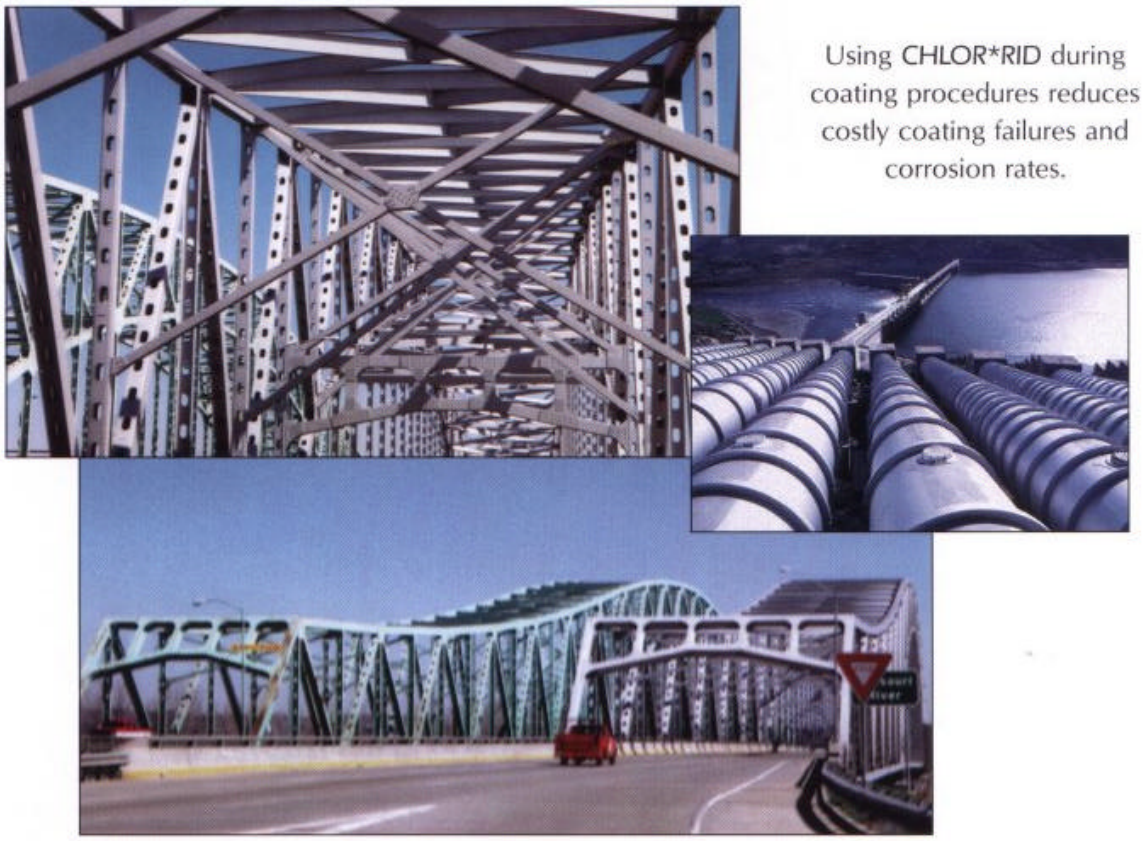
CHLOR*RID can satisfy your most aggressive requirements – simply, safely and economically. It is effective on most surfaces, including steel, foam, concrete and plastics. CHLOR*RID has been used by private industry, for federal and state highway coating and cleaning projects, to wash dams, tanks, bridges and machinery, even in a microbiological lab.

CHLOR*RID® will not interfere with the adhesion of protective coatings.

When your specification requirements require consistent, safe and reliable removal of soluble salt contamination, use CHLOR*RID.

Soluble salts, like chlorides and sulfates, are found on surfaces everywhere. These soluble salts pull moisture from the air, causing protective coatings to fail. They can also be the cause of degradation of the substrate. Left unchecked, the surface contamination can corrode into deep pockets, making decontamination even more important and challenging. Lost productivity from protective coating failures are costly and can be hazardous.

Alternative methods are not as cost effective. Abrasive blasting often requires repeated blasting. Some abrasives contain salts and actually deposit trace amounts of soluble salts on surfaces. Other methods require heat or use of hazardous chemicals. Some methods may leave residues that interfere with the adhesion of the protective coating, thus contributing to coating failure.



Using CHLOR*RID during coating procedures reduces costly coating failures and corrosion rates.

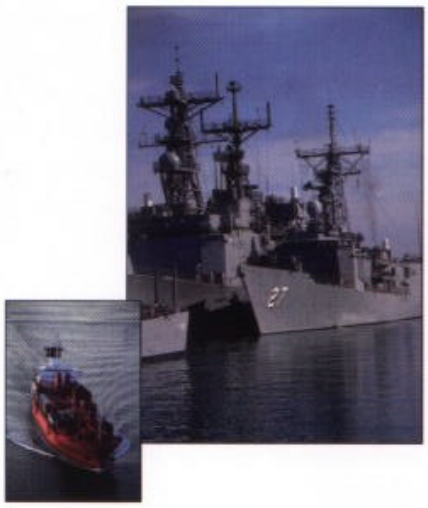
CHLOR*RID removes chlorides and sulfates from contaminated surfaces in a simple dilution with any potable water source. CHLOR*RID is biodegradable, non-flammable and contains no volatile organic compounds. Laboratory and field tests confirm that CHLOR*RID is effective for removing chlorides and sulfates from industrial surfaces.

Wasser High-Tech Coatings, Tnemec Company, and Advanced Polymer Sciences, and Wisconsin Protective Coatings have tested CHLOR*RID with their coatings and found that it does not interfere with the adhesion of their coatings. Scanning Electron Microscopy (SEM) inspection by KTA Tator Laboratories established that CHLOR*RID leaves no film or residue after use.

Contamination free results are what truly counts. CHLOR*RID is the easiest and most economical way to remove soluble salt contaminants with any method – high-pressure washing, wet abrasive blasting or even hand-cleaning.

Adding CHLOR*RID to the regular maintenance pressure wash of aircraft will increase the effectiveness of chloride and sulfate removal.

CHLOR*RID® is a unique organic bonding chemistry which aids in the removal of chlorides, sulfates and most other soluble salts.



If salts are soluble, why doesn't water remove them? Because they are electrochemically driven to the substrate and are attached with greater strength than the forces applied to remove them.

It is internationally recognized that CHLOR*RID is a product that has no equal in the removal of soluble salts. CHLOR*RID's innovative technology and proven performance provided, not only the U.S. Government but also foreign governments, a reason to issue Letters of Patent for this unique product.

The Permite Corporation tested CHLOR*RID with several of their coating systems, including Grip-Tite Epoxy Primer, Permox Epoxy, Permox Type II Epoxy and PCS-865 Epoxy Novalac. They performed six different tests: salt spray on scribed panels, ASTM B 117; weatherometer, ASTM G 5377; and adhesion tests ASTM D 2794, ASTM D 3359, ASTM D 522, and ASTM D 4541.

CHLOR*RID® contains no volatile organic compounds, and is biodegradable.

"We have concluded that the use of CHLOR*RID demonstrated no adverse effect to either adhesion or performance with these respective products."

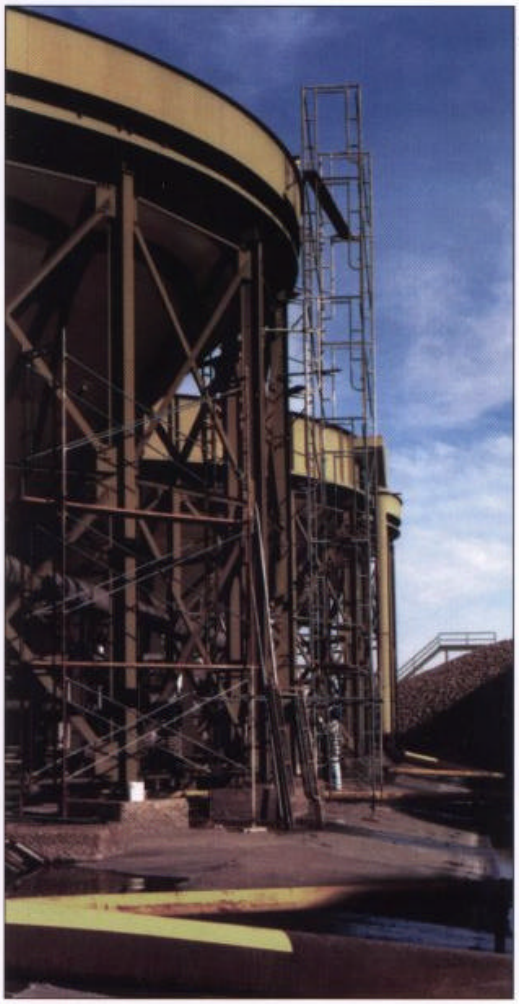
"We would recommend the use of CHLOR*RID with these products when soluble salts contamination is encountered during the surface preparation phase of high performance coatings application."

– The Permite Corporation

"Wasser would support and recommend use of the CHLOR*RID solution, including its use within a specified system in geographical zones prone to salt and chloride contamination for both atmospheric and immersion service."

– Wasser High-Tech Coatings

No other product on the market offers to solubilize and remove salts as effectively, while being environmentally and worker friendly. CHLOR*RID contains no volatile organic compounds and is biodegradable. It poses no health concerns and does not require certification for use.



Tnemec Company is conducting long-term tests using CHLOR*RID in conjunction with two high-performance coating systems in their laboratory. The coating systems being tested are:

- A polyamidoamine epoxy primer top-coated with an acrylic polyurethane, and
- A moisture-cured urethane zinc-rich primer, also top-coated with an acrylic polyurethane.

"Our testing has shown that the use of CHLOR*RID has no effect on ASTM D 3359 adhesion to SSPC SP 10 prepared steel after ten freeze-thaw cycles."

– Tnemec Company Incorporated

After a one year testing program in an Atlas Cell, the following remark was made:

"The following coating system was applied to our recommended film thickness for immersion service on Atlas Cell Plates that were contaminated with a brine solution for one week and then decontaminated by hand scrubbing with a CHLOR*RID solution.

- 7159 Control (1) Uncontaminated Steel
- 7159 with Decontaminated Steel (2)

The test showed CHLOR*RID Solution was effective in reducing chloride contaminates and did not effect adhesion of the coating."

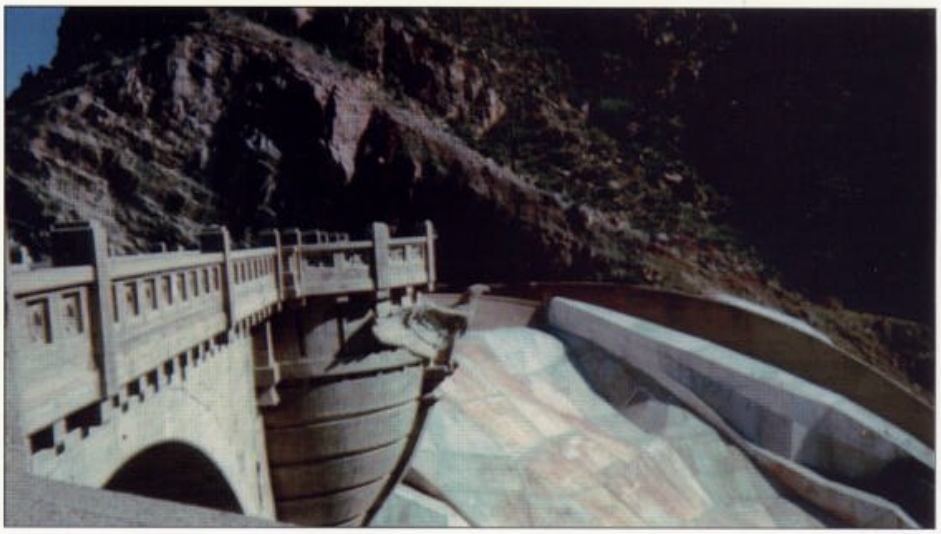
– Wisconsin Protective Coating Corp.

CHLOR*RID® does not pose a health concern and certification is not required for use.

"When used according to specifications CHLOR*RID™ does not effect the adhesion of any of the Siloxirane products, regardless of whether immersion service, spill and splash or vapor."

"Advanced Polymer Sciences also affirms the recommendation of the use of CHLOR*RID™ as an acceptable method of surface decontamination."

– Advanced Polymer Sciences, Inc.



Corrosion inducing salts can be removed from concrete structures.

Recommended for use on

- Bridge Structures
- Ships
- Mining Facilities
- Storage Tanks
- Public Utilities
- Electronics
- Offshore Drilling Rigs
- Marine Structures
- Process Equipment
- Pulp and Paper Mills
- Power Generation Plants
- Natural Gas Facilities
- Saw Mills
- Petrochemical Installations
- Piping
- Cooling Towers
- and More

CHLOR*RID® is

- **Economical**
- **Biodegradable**
- **Non-flammable**
- **No volatile organic compounds**

Specifications

- Color: Blue-Green
- Typical coverage: 300 - 1000 square feet per U.S. gallon
- No VOCs
- pH 3.3 (+/- .2)
- Packaging: 1/5/55 U.S. Gal. - 4/20/220 Ltr.
- Single Component
- Shelf Life: 24 months
- Application Temperature: 33°F - 250°F
- Keep from freezing – If frozen, thaw before use.

Directions

DESCRIPTION: CHLOR*RID is a unique organic bonding chemistry which aids in the removal of chlorides, sulfates and surface reacted salts. Patented product.

HIGH PRESSURE WASHING: CHLOR*RID is added to the water of the pressure washer, usually in a dilution ratio of 1:100. The dilution ratio is dependent on the contamination level and the water quality. Add CHLOR*RID by means of a metering pump or add to a reservoir supply. A siphon device may be used, but most such devices lack dilution control and positive input. Use potable water or other approved source. A minimum 3000 p.s.i. pressure washer is recommended. A zero degree rotating nozzle is also recommended. Flush washer and lines prior to application. Hold pressure nozzle perpendicular to the surface and no more than 12 inches away, to ensure all surfaces are washed with direct high pressure. In areas of deep pitting, slow the wash speed to enable CHLOR*RID to penetrate. Do not rinse. Typical application rate is 300 to 1000 Sq. Ft. per gallon of CHLOR*RID.

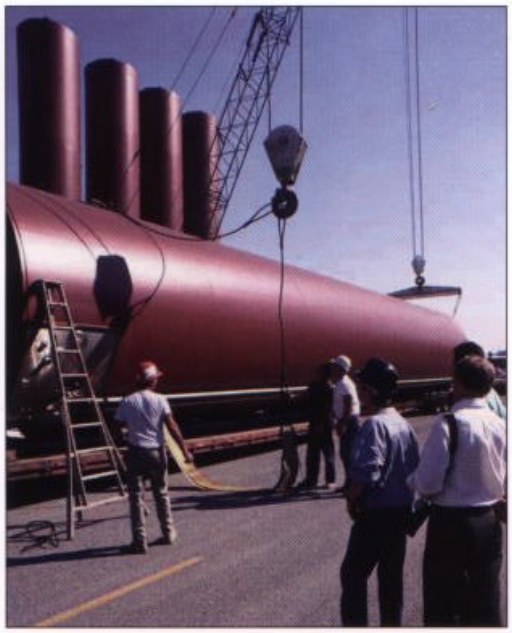
CHLOR*RID is easy to use.

HAND WASHING: Use CHLOR*RID DTS™ (Direct To Surface) according to directions. CHLOR*RID DTS is ready to use direct from the container – no dilution necessary.

WET ABRASIVE BLASTING: Add CHLOR*RID to the system at 1 U.S. gallon per 300 - 1000 square feet of surface to be blasted using potable water or other approved source. (Dilution ratio of 1:500 typical.) Add CHLOR*RID to rinse water at 1:500 ratio. Always use appropriate safety equipment.

TESTING: After cleaning or blasting a small sample area, test the surface with a CHLOR*TEST™ kit to verify cleanliness. Adjust speed of travel, pressure, or dilution as necessary and retest to verify desired cleanliness level is attained. Abrasives and water used should be tested with CHLOR*TEST kits "A" and "W".

Due to a wide variety of surface conditions, work environments, weather conditions, etc., these directions are general and may require alterations to better suit individual conditions. Call CHLOR*RID International Inc. for recommendations for a specific project. CHLOR*RID International Inc. assumes no liability for use or misuse of the product inconsistent with its labeling.



FIELD TESTING: When field testing for chlorides, always use an ion specific testing device such as CHLOR*TEST™ for surfaces, CHLOR*TEST "A" for abrasives and CHLOR*TEST "W" for water and other liquids. Conductivity measurement will give no indication of chloride levels.

Warranty

CHLOR*RID International Inc. warrants this product to be identical in chemical and physical properties from batch to batch within the specification limits of the raw materials used in its manufacture.

Safety Precautions

KEEP OUT OF REACH OF CHILDREN. Do not mix with other chemicals. See M.S.D.S. for full precautions prior to use. This product is intended for professional use only.