

CHLOR*RID[®] LIQUID SOLUBLE SALT REMOVER

DATA SHEET

DESCRIPTION: CHLOR*RID is an organic bonding chemical blend which aids in the removal of chlorides, sulfates and surface reacted salts. Contains no volatile organic compounds (VOC's), and is biodegradable.

CHLOR*RID is recommended for use in a maintenance wash solution to reduce corrosion and as part of surface preparation prior to application of primers or coatings on a variety of surfaces, including ferrous and non-ferrous metals, concrete, wood, plastics and others.

SURFACE PREPARATION: Best surface preparation yields the best results. If hydrocarbons are present, they should be removed prior to salt removal. Barrier materials, such as rust or scale or delaminated coatings, should be removed prior to salt removal. Sufficient mechanical force, such as high pressure water or wet abrasive blast, may be utilized so barrier materials are removed as part of salt removal procedures.

APPLICATION: CHLOR*RID can be introduced and applied by a variety of means. See Directions for hand cleaning, pressure washing, UHP waterjetting and wet abrasive blasting methods. Contact CHLOR*RID International, Inc. or an Authorized Distributor for other methods or technical support.

Before and after cleaning a small sample area (usually 25 Sq. Ft.), test the surface for contamination. Adjust travel speed, pressure or dilution as necessary and retest to assure desired cleanliness level is achieved. It is not necessary to use the entire contents. Partially filled containers should be closed tightly.

- * Color: Blue
- * Typical coverage: 300-1000 Sq. Ft./ Gal.
- * No VOC's
- * pH 3.3 (+/- .2)
- * Keep from freezing – if frozen, thaw before use.
- * Packaging: 1/5/55 U.S. Gallon
- * Single Component
- * Shelf Life: 36 months
- * Application Temperature: +32° F
- * Non-Flammable

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 their 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.

CHLOR*RID[®] LIQUID SOLUBLE SALT REMOVER

DIRECTIONS

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

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. (See Testing below) Add CHLOR*RID by means of a metering pump or add to a reservoir water 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.

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 1:100 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.

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Specifications Guide for CHLOR*RID[®]

CHLOR*RID can be used in several different ways, dependent upon which method of surface preparation is used. Typically, water is used as the delivery vehicle. Though a minimum of 3000 psi is recommended, there is no prescribed maximum. There also is no upper limit established for water temperature. Temperatures usual to waterjetting and steam cleaning applications are satisfactory.

It is essential that all barrier deposits be removed to allow application of CHLOR*RID to any areas in which soluble salt contamination is present. CHLOR*RID MUST come into contact with the salts to remove them. Barrier deposits left on the surface will form a mask over the salts and will prevent their removal.

The following is meant as a guideline for inclusion of CHLOR*RID in several of these different methods.

1) Material Specification

- A. Dry Abrasive Blast - Pressure Wash
- B. Dry Abrasive Blast - Pressure Wash - Dry Abrasive Blast
- C. Wet Abrasive Blast
- D. High Pressure Wash - Dry Abrasive Blast
- E. High Pressure Water Jet or Ultra-High Pressure Water Jet
- F. Hand Washing
- G. Pressure Wash - Concrete, w/wo Dry Abrasive Blast

IMPORTANT NOTE: Because of the granular nature of steel, when the surface is abrasive blasted, in many instances contaminants are trapped in minuscule crevices of the steel which have been peened over by the abrasive, making it virtually impossible to remove all the contaminants there. This will sometimes result in a very light flash rust over the surface after washing.

There are additional methods to remove soluble salts with CHLOR*RID. An example of this is methodology wherein the wash solution has to be 100% contained within a confined area. If you have a specialty project that requires a particular specification, our firm will be glad to work with you in developing it.

CHLOR*RID[®] LIQUID SOLUBLE SALT REMOVER

Material Specification

Soluble salt remover: Soluble salt remover is to be CHLOR*RID[®] or approved equal. The soluble salt remover shall meet the following specification:

- pH shall be 3.3 (+/- .2)
- Color shall be blue-green
- Dilution ratio shall be 1:100 for pressure washing; 1:500 for wet abrasive blasting
- VOC's shall be 0
- VOHAP's shall be 0
- Recommended coverage is to be 300 to 1000 square feet per US gallon
- Shelf life is to be 36 months
- Material shall be all organic and non-hazardous
- Material shall be non-flammable
- Material shall be suitable to be used at any pressure
- Material shall pass Bioassay tests for both fresh and salt water

CHLOR*RID is available from CHLOR*RID International, Inc.
1-800-422-3217 / 1-480-821-0039, or any of their Authorized Distributors

CHLOR*RID[®] SPECIFICATION “A”
DRY ABRASIVE BLAST-PRESSURE WASH

A). Abrasive blast the entire surface to be coated to a (insert blast standard) finish. Pressure wash the entire surface with a minimum of 3000 psi. The wash water is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 100 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 square feet of surface area per 100 US gallons of wash solution. The high pressure washer is to be equipped with a 0 degree rotating nozzle (0 to 15 degree flat fan nozzle may be acceptable) and the nozzle is to be held a minimum of 4” to a maximum of 10” from the surface being washed.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard) or fan.

Any test area that is in excess of the acceptable level of soluble salts is to be re-washed at a higher application rate to achieve a clean surface. As work progresses soluble salt tests are to be performed in the prescribed manner every (stipulate frequency wanted) square feet (or square meters) to ascertain cleanliness to meet the required specification.

CHLOR*RID and CHLOR*TEST are available from CHLOR*RID International, Inc.
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CHLOR*RID[®] SPECIFICATION “B”
DRY BLAST-PRESSURE WASH-DRY BLAST

B). Abrasive blast the entire area to be coated with a sweep blast (insert blast standard) to remove all delaminated coating, corrosion byproducts or other barrier materials. Barrier deposits left behind will form a mask over the salts and will prevent their removal.

After sweep blasting procedures are completed, pressure wash the entire surface with a minimum of 3000 psi. The water wash is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 100 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 square feet of surface area per 100 US gallons of wash solution. The high pressure washer is to be equipped with a 0 degree rotating nozzle (0 to 15 degree flat fan nozzle may be acceptable) and the nozzle is to be held a minimum of 4” to a maximum of 10” from the surface being washed.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. Any test area that is confirmed to be in excess of the acceptable level of soluble salts is to be rewashed at a higher application rate to achieve a clean surface.

After soluble salt contaminants are removed to the required level, proceed with the final abrasive blast to (insert blast standard) standards for final surface preparation.

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CHLOR*RID[®] SPECIFICATION “C” WET ABRASIVE BLAST*

C). To the standard abrasive nozzle, add a water ring intended for wet abrasive blasting or use a nozzle specifically designed for that purpose. Water is to be supplied to the water ring or comparable equipment as per the manufacturers recommendation. The blast water is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 500 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 to 1000 square feet of surface area per 500 US gallons of blast solution.

When an area of approximately 25 square feet has been blasted, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ test kit (insert other acceptable test method). If the contamination level is below the required level, the square foot application rate may be decreased or increased with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the necessary application rate needed to remove the soluble salts to the required level. Any test area that is confirmed to be in excess of the acceptable level of soluble salts is to be reblasted at a higher application rate to achieve a clean surface. The entire surface is to be abrasive blasted to (insert blast standard) standards for final surface preparation. It may be necessary to rinse the surface upon completion of wet abrasive blasting to remove excess abrasive left upon the surface. The rinse water is to have CHLOR*RID added at a dilution of 1:500. After rinsing, excess water is to be blown off with clean compressed air (insert air quality specification) or fan.

CHLOR*RID and CHLOR*TEST are available from CHLOR*RID International, Inc.
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CHLOR*RID[®] SPECIFICATION “D”
HIGH-PRESSURE WASH-DRY ABRASIVE BLAST

D). Pressure wash with a minimum of (specify psi standard if different) 10,00 psi. The wash water is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 100 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 square feet of surface area per 100 US gallons of wash solution. The high pressure washer is to be equipped with a 0 degree rotating nozzle (0 to 15 degree flat fan nozzle may be acceptable) and the nozzle is to be held a minimum of 4” to a maximum of 10” from the surface being washed.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard) or fan.

After determining that soluble salts are not in excess of (insert acceptable level) by the prescribed test method, proceed to abrasive blast the surface to (insert blast standard) standard for final surface preparation.

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CHLOR*RID[®] SPECIFICATION “E”

HIGH-PRESSURE OR ULTRA HIGH PRESSURE WATER JET

E). High pressure water jet or ultra high pressure water jet with a high pressure washer at a minimum of (specify psi). The wash water is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 100 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 square feet of surface area per 100 US gallons of wash solution.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard) or fan.

After determining that soluble salts are not in excess of (insert acceptable level) by the prescribed test method, proceed to water blast the surface to (insert blast standard) standard for final surface preparation. After blasting, the surface is to be blown dry with clean compressed air (insert air quality specification) or fan.

Insert any balance of the water jetting specification as necessary, such as: The water jet system is to be equipped with a (specify) nozzle and the nozzle is to be held a minimum of (specify distance) from the surface being washed.

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CHLOR*RID[®] SPECIFICATION “F”

HAND WASHING

F). Hand washing is to be done for contaminate removal in areas of spot repair or areas very small in size. Any loosely adhered paint, rust scale, corrosion deposits or other barrier material is to be removed first. This is to be done by means of abrasive blast to (insert specification) or by hand or power tools as per (insert specification). Apply CHLOR*RID DTS (Direct To surface) material sufficient to wet out the entire surface. The DTS solution is to be scrubbed over the surface vigorously with a nylon bristle brush or similar tool. After scrubbing is completed, the surface is to be rinsed and flushed with a quantity of the same wash solution. After rinsing, the surface is to be blown dry with clean compressed air (insert air quality specification) or fan. The surface is to then be tested by CHLOR*TEST test kit (or other acceptable test method) to ascertain the contaminant level is below (insert specified acceptable level). Any test area that is confirmed to be in excess of the acceptable level of soluble salts is to be rewashed in the above manner until a clean surface is achieved.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard) or fan.

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CHLOR*RID[®] SPECIFICATION “G”

PRESSURE WASH - CONCRETE, W/WO DRY ABRASIVE BLAST

G). Abrasive blast the entire surface to be coated to a (insert blast standard) finish. (If abrasive blast is not desired, delete the first sentence.). Pressure wash with a minimum of 3000 psi. The wash water is to be of potable quality and CHLOR*RID is to be added by means of a pressure pump or injector capable of overcoming the inlet line pressure, or from a pre-mixed holding tank. This is necessary to assure the introduction of the CHLOR*RID chemistry. A backflow prevention device shall be installed in the supply line prior to the chemical introduction location (check local code). CHLOR*RID is to be introduced at the approximate dilution of 1 US gallon per 100 US gallon of wash water. The operator shall apply the wash solution at the rate of approximately 300 square feet of surface area per 100 US gallons of wash solution. The high pressure washer is to be equipped with a 0 degree rotating nozzle (0 to 15 degree flat fan nozzle may be acceptable) and the nozzle is to be held a minimum of 4” to a maximum of 10” from the surface being washed.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination by means of CHLOR*TEST™ (insert other acceptable test method). If the contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard).

Any test area that is confirmed to be in excess of the acceptable level of soluble salts is to be rewashed to achieve a clean surface. As work progresses soluble salt tests are to be performed in the prescribed manner every (stipulate frequency wanted) square feet (or square meters) to ascertain cleanliness to meet the required level.

CHLOR*RID and CHLOR*TEST are available from CHLOR*RID International, Inc.
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CHLOR*RID DTS™ Data Sheet (Direct To Surface)

DESCRIPTION: CHLOR*RID DTS is a ready to use organic bonding chemical blend which aids in the removal of chlorides, sulfates and most other soluble salts; contains no volatile organic compounds (VOC's), and is biodegradable.

USES: CHLOR*RID DTS is recommended as a wash solution prior to application of primers or coatings on a variety of surfaces, including ferrous and nonferrous metals, concrete, wood, plastics and others. For a full list contact Mfg.

SURFACE PREPARATION: Best surface preparation yields best results.

APPLICATION: Application methods vary. (See Directions).

EQUIPMENT CLEANUP: Flush with clean fresh water.

It is not necessary to use entire contents. Partially filled containers should be closed tightly. Keep from freezing.

Color: Light green

Typical coverage: 300 square feet per gallon

Shelf life: 24 months

Application temperature: 35 to 211F.

Single component

No VOC's

pH 3.4 (+-.2)

Packaging: 5/55 gallon

WARRANTEE: 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 their manufacture.

SAFETY PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Do not mix with other chemicals.

See Material Safety Data Sheet for full precautions prior to use.

Made in U.S.A. - Patented Product

CHLOR*RID DTS™

(Direct To Surface)

Directions

The use of this product is extremely easy and it is quite effective at removing soluble salts, but the directions must be followed closely. This product is not intended to be a degreaser. Any grease or oil film should be removed first. This product is intended for use in surface preparation for atmospheric service coatings. There are just three easy steps.

Step 1. Remove Barrier

Soluble salts adhere themselves to the substrate. For the effective use of this product, the product must be able to come in contact with the salts. These salts are beneath any rust scale or blistered or damaged coating, therefore, these barriers must be removed prior to application of this product. This may be accomplished by wet or dry abrasive blasting, water jetting, power tool cleaning or hand tool cleaning. As in all surface preparation, the best work yields the best result.

Step 2. Apply CHLOR*RID DTS

Apply CHLOR*RID DTS directly onto the substrate. Sufficient product must be applied uniformly across the substrate to thoroughly wet out the surface, with no areas missed. This may be accomplished by whatever method you choose, such as an airless sprayer, roller, brush, pump up sprayer or conventional spray gun. The method does not matter, as long as the entire area to be cleaned is wetted. For most application, an application rate of approximately 300 Sq. Ft. per gallon is satisfactory. After the substrate has been thoroughly wetted, the salts will have been solubilized and now it is only necessary to rinse them off.

Step 3. Rinse

It is highly recommended that a pressure washer be used for the rinse off step, but a hose may be used if a pressure washer is not available. The water to be used for the rinse is recommended to be of potable quality, though a lesser quality of water may be used if a small amount of CHLOR*RID DTS is added. Check with CHLOR*RID International, Inc. for recommendations on lesser quality rinse water. If flash rust is encountered or undesirable, a small amount of CHLOR*RID DTS may be added to the rinse water to avoid or reduce flash rust. A dilution ratio of 50:1 is recommended for potable water, dependent upon water quality.

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