



# PRODUCT DATA SHEET

PROD. #249

## SHIELD'S ALL CONCRETE CLEANER & EFFLORESCENCE REMOVER



### PRODUCT DESCRIPTION

Richard's Shield's All Concrete Cleaner & Efflorescence Remover safely and quickly cleans a variety of cementitious substrates, such as Masonry, Concrete, Brick Pavers, River Rock, architectural concrete, retainer walls, etc., while dissolving all signs of efflorescence. This special synthetic acid formula dissolves more calcium carbonate and efflorescence than muriatic (hydrochloric) or phosphoric acid based cleaners. This cleaner can be used to prepare stone and masonry surfaces for clear sealers, stains or paints, or simply restore the original beauty and natural look.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES
<ul style="list-style-type: none"> <li>Synthetic Acid Formula</li> <li>Removes Efflorescence</li> <li>Non-D.O.T. Regulated</li> <li>No Neutralizing Step</li> <li>Stronger Than Muriatic</li> <li>Eliminates Mineral Stains</li> <li>Easy To Use</li> </ul>	<p><i>Suitable for, but not limited to the following properly prepared surfaces:</i></p> <p><b>INTERIOR/EXTERIOR</b></p> <ul style="list-style-type: none"> <li>Masonry</li> <li>Concrete Walls &amp; Floors</li> <li>Concrete Block</li> <li>Stone</li> <li>Retaining Walls</li> <li>Brick</li> <li>River Rock</li> <li>Garage Floors</li> <li>Pavers</li> <li>Driveway</li> </ul> <p><b>Great For Interior &amp; Exterior Use!</b></p>	<p><b>Product Quality:</b> Specialty</p> <p><b>Product Use:</b> Interior &amp; Exterior</p> <p><b>Application:</b> Brush, Roller, Mop, Pump-Up Sprayer</p> <p><b>Product System:</b> Water-Based</p> <p><b>Sheen:</b> N/A</p> <p><b>MPI Standards:</b> N/A</p> <p><b>VOC Compliance:</b> N/A</p>

### SURFACE PREPARATION

**GENERAL:** Protect people, vehicles, property, metal, painted surfaces, plants and other non-masonry materials from product, rinse, splash, residue, wind drift and fumes. Polyethylene plastic and masking tape create an effective barrier. Nearby plants and other foliage should be covered during application and removal.

- MASONRY & CONCRETE:** New cementitious substrates, such as allow a minimum 30 - 45 days to properly dry/cure, in accordance with industry standards. Remove contaminants, such as heavy dirt, oils, grease, wax, and embedded chemicals with **Richard's #248, Shield's All Oil & Grease Remover**.
- MILDEW:** Surface areas affected by mildew should be treated with a commercial mildew removal and/or cleaner product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.
- SURFACE REPAIRS:** Repair/replace any damaged and/or delaminated surface areas with the proper recommended patching and/or building materials. Allow all patching materials to dry thoroughly before application of this cleaner.

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how you can protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-Lead, or log onto [www.epa.gov/lead](http://www.epa.gov/lead).

### TECHNICAL DATA

- FORM:** Liquid
- TOXICITY:** Non-Toxic
- VEHICLE TYPE:** Proprietary
- VISCOSITY:** Thin/Watery
- BOILING POINT:** 228° F
- FLASH POINT:** N/A
- WETTING ABILITY:** Excellent
- SOLUBILITY IN WATER:** Soluble
- BIODEGRADABLE:** 100%
- CARCINOGENS:** None
- VOLITILE BY VOLUME:** N/A
- COVERAGE:** Cleans 35 – 400 Square Feet/Diluted Gal.
- NITRATE LEVEL:** 0%
- APPEARANCE & ODOR:** Mild Odor
- COLD STABILITY:** 19° F
- SHELF LIFE:** 2 - 3 years unopened.
- PACKAGING:** Qts. – N/A | Gal. – 4/cs. | 5 Gal. - Each

## RECOMMENDED PRIMER COATINGS

The following are recommended dilution ratios for various cleaning projects and jobs;

- **CONCRETE STRIPPING**
  - Dilute 1:1 w/Water
- **HEAVY DUTY CLEANING**
  - Dilute 3:1 w/Water
- **GENERAL CLEANING**
  - Dilute 8:1 w/Water
- **LIGHT DUTY CLEANING**
  - Dilute 10:1 w/Water

## APPLICATION EQUIPMENT

- Apply using a quality sponge, or combination nylon/polyester bristle scrub brush.
- Apply using a quality mop or a combination nylon/polyester bristle broom scrub mop.
- **Spray Application:**
  - Low pressure hand pump-up sprayer

## PRODUCT LIMITATIONS

- Not for use on polished surfaces.

## CLEAN UP & THINNING INSTRUCTIONS

**Clean Up:** Clean up any minor spills and spatters immediately with water, as well as all cleaning tools and equipment.

**Thinning/Diluting:** Thin or dilute according to above recommendations.

## PRODUCT APPLICATION – General

Richard's Shield's All Concrete Cleaner & Efflorescence Remover may be easily applied with a quality sponge, brush, roller, mop, or low-pressure pump-up spray as follows;

- Stir or mix thoroughly before application.
- Based on type of cleaning project or job, dilute product with water in accordance with recommended dilution ratios. Always pour cleaner into bucket of water.
- **Sponge/Brush Applications:** When applying by sponge or scrub brush, apply a generous amount of Shield's All Concrete Cleaner & Efflorescence Remover to the surface are to be cleaned, agitate area with sponge or scrub brush and rinse well with water and allow to dry.
- **Mop/Broom Application:** When applying by mop or bristle broom scrub brush, apply a generous amount of Shield's All Concrete Cleaner & Efflorescence Remover to the surface are to be cleaned, agitate the area thoroughly then rinse with well with water and allow to dry.
- **Spray Application:** When applying by spray equipment, use a low pressure pump-up sprayer and spray apply a generous amount of Shield's All Concrete Cleaner & Efflorescence Remover to the surface area to be cleaned, then agitate the surface area as described above with a sponge, scrub brush, mop, broom, etc. Rinse thoroughly with water, and allow to dry.
- Rough or textured surfaces may need multiple applications to sufficiently remove contaminates.

## PRECAUTIONARY & SAFETY INFORMATION

**CAUTIONS:** Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. **USE WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. Use chemical safety glasses, goggles or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

**FIRST AID:** In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes and get medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, get medical attention immediately.

**KEEP OUT OF REACH OF CHILDREN!**

## LIMITED WARRANTY

Richard's Paint Mfg. Co., Inc. warrants our products to meet the application, appearance and performance properties stated on the label. This Limited Warranty shall not apply to any defect or damage resulting from improper surface preparation, structural defects, failure of a previous paint or improper application of the coating, as described in the directions on the label of this container. If this product is found not to perform as specified, Richard's Paint will, at its option and upon presentation of proof-of-purchase (the original receipt), either furnish an equivalent amount of new product or refund the original purchase price of this product to you. **ALL OTHER WARRANTIES ARE EXCLUDED BY RICHARD'S PAINT MFG. CO., INC., EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

## LIMITATIONS

Seller's liability for any reason is expressly limited to reimbursement of the purchase price of the materials sold after proof of purchase is provided to the seller. **THIS WARRANTY EXCLUDES (1) LABOR AND COSTS ASSOCIATED WITH LABOR FOR THE APPLICATION OR REMOVAL OF ANY PRODUCT, AND (2) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OR RESULTING FOR ANY REASON UNDER THE SALE, HANDLING, OR USE OF GOODS SOLD.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This Limited Warranty may not be transferred or assigned.

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