



ERS-Membrane Cleaner

P/N: 035-0126

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Membrane Cleaner is a highly concentrated, low-sudsing, biodegradable cleaning solution designed for EPDM and other approved surfaces.

RECOMMENDED USES:

Removes grease and grime from roofs.

SURFACE PREPARATION:

Remove heavy deposits of dirt, leaves, pine needles, and other debris using a broom or air blower.

APPLICATION EQUIPMENT:

This product may be sprayed using a hand-pump, compression type sprayer, or airless spray equipment.

APPLICATION PROCEDURES: When using a hand-pump sprayer, adjust nozzle to achieve a uniform spray pattern with a 3 to 4 foot arc. When using airless spray equipment, use a .015" to .019" reversible tip with a 40° to 50° fan angle. Spray at the rate of 500 square feet per gallon.

Allow ERS-Membrane Cleaner to stand a minimum of 10 minutes to saturate the membrane surface contaminants.

NOTE: Prolonged contact between the rinseable cleaner and the membrane surface will not adversely impact the performance of the cleaner.

Using a minimum 2,000-psi pressure washer, rinse the membrane surface with clean water. Beginning at the lowest point of the roof, work toward the highest point keeping the pressure washer tip within 12" of the surface to be cleaned. Once at the highest point, work down with a final rinse to remove all residue from the roof surface.

On flat roofs, work away from and then back toward roof drains to achieve a double rinse. ERS-Membrane Cleaner, in its diluted form, is safe to rinse down roof drains and is not harmful to surrounding landscape. (See Safety Precautions below.) Prior to application of the Ecology Roof Systems topcoat(s) or sealant, allow the membrane to dry thoroughly. A cleaned EPDM membrane must be "jet black" in color, which is an indication that the surface has been properly prepared for optimum coating adhesion. If the EPDM membrane is not "jet black", additional cleaning is necessary.

Drying time is temperature, humidity, and film thickness dependent.

Rinse equipment with clean water.

SAFETY PRECAUTIONS:

DANGER! Material can cause the following:

- Corrosion to the eyes
- Severe respiratory tract irritation
- Severe digestive tract irritation
- Severe skin irritation

Do not get on skin or in eyes. Can cause severe burns. Wear protective eye and skin coverings. In case of incidental contact, wash affected areas with clean water. Refer to MSDS.

High pH Product

Thoroughly read MSDS – it is important to note that Section 6 of the MSDS titled “Accidental Release Measures” and Section 13 of the MSDS titled “Disposal Considerations” discuss spills of undiluted ERS-Membrane Cleaner. These undiluted spills are different from the rinsate referred to below in the technical notes. The rinsate is defined in these notes as the roof washings composed of diluted ERS-Membrane Cleaner that result from the proper use of the product according to the application guidelines. In general, during the pressure washing of a roof, one part of ERS-Membrane Cleaner is diluted with 3 parts of water.

ENSURE PROPER DRAINAGE:

Ecology Roof Systems advocates the use of prudent judgment regarding the release of roof rinsate ERS-Membrane Cleaner into the environment. Based on aquatic toxicity, ERS-Membrane Cleaner is classified as of LOW CONCERN, according to the USEPA TSCA classification criteria, i.e. the LC/EC₅₀ > 100 mg/L. Specific for ERS-Membrane Cleaner, the results indicate that the lethal or effective (functional) concentration affecting 50% of the tested population is greater than 1000 mg/L of ERS-Membrane Cleaner (the highest dose tested) for fish, aquatic invertebrates and algae. The pH of the ERS-Membrane Cleaner into a storm sewer will cause adverse impact to exposed organisms. The number and diversity of organisms in these non-natural systems are anticipated to be low. Increased dilutionary capacity of any receiving water body will serve to further mitigate any potential for adverse effects. Without detailed plans regarding the receiving watercourse at the site in question, caution should be exercised. Release of rinsate into pristine watercourses should be avoided.

With regard to the potential for persistence within the environment, primary degradation will be anticipated to occur in the days to weeks range with ultimate biodegradation anticipated to occur within the weeks to months time frame. Thus is it anticipated that the components of ERS-Membrane Cleaner will not persist in the environment.

Note that compliance with local regulatory ordinances regarding releases of the rinsate into the aquatic or soil compartments should be ensured prior to any disposal operation. ERS-Membrane Cleaner contains approximately 5% phosphates by weight.

PHYSICAL PROPERTIES:

Appearance	Clear
Color	Light pink
State	Liquid
Odor	Characteristic mild odor
pH	13 to 13.5
Solubility in Water	Completely soluble
Percent Volatility	87 to 89% Water
Evaporation Rate	- < 1 Water

FLAMMABILITY CHARACTERISTICS: Non-flammable.

APPLICATION CONDITIONS: Temperature – Air and surface: 33°F (0°C) minimum

ORDERING INFORMATION: This product is available in 5-gallon pails.

SHIPPING INFORMATION:

<u>Container Size</u>	<u>Gross Weight</u>	<u>Class</u>
5 Gal. (18.9 liter)	48 lbs	55

SHELF LIFE: 24 months

D.O.T. CLASSIFICATION: Caustic alkali liquids, n.o.s., (inorganic salts), 8, UN1719, PGIII.

HMIS: Health 3, Flammability 0, Reactivity 0, Protection X.

Ecology Roof Systems®

Corporate Offices

9821 Olde Eight Road, Unit F, Northfield, OH 44067

PHONE: 330-467-4220 FAX: 330-467-4225

www.ecologyroof.com

REGIONAL OFFICES LOCATED ACROSS THE U.S.

To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Ecology Roof Systems to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Ecology Roof Systems. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ECOLOGY ROOF SYSTEMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.