

Emerald® Rain Refresh™

Exterior Acrylic Flat

K47-1900 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Emerald® Rain Refresh™ with Self-Cleaning Technology™ is our most innovative exterior architectural house paint ever.

Key Attributes and Benefits:

- Excellent application, flow and leveling
- Excellent dirt pick up resistance
- Excellent water shedding
- Self-priming
- Resistant to wind driven rain
- Can be applied down to 35°F

Emerald Rain Refresh is formulated to be self-cleaning by shedding dirt upon rain or water contact.

VinylSafe™ paint colors allow you the freedom to choose from 100 color options, including a limited selection of darker colors formulated to resist warping or buckling when applied to a sound, stable vinyl substrate.

Color: Most Colors

Coverage: 250-300 sq. ft. per gallon
@ 5.3-6.4 mils wet; 2.2-2.6 mils dry

Drying Time, @ 50% RH:

	@ 35-45°F	@ 45°F +
Touch:	4 hours	2 hours
Recoat:	24-48 hours	4 hours

Drying and recoat times are temperature, humidity, and film thickness dependent.

Finish: 0-5 units @ 85°

Tinting with CCE only:

Base:	oz. per gallon	Strength:
Extra White	0-7	SherColor
Deep Base	4-14	SherColor
Ultra Deep Base	10-14	SherColor

Extra White **K47W01951**

(may vary by color)

VOC (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids:	41 ± 2%
Weight Solids:	57 ± 2%
Weight per Gallon:	11.37 lbs
Flash Point:	N/A
Vehicle Type:	Proprietary acrylic
Shelf Life:	36 months unopened
WVP Perms (US)	19.35 grains/(hr ft² in Hg)

Mildew Resistant

This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

COMPLIANCE

As of 03/14/2022, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	N.A.
LEED® v4 & v4.1 VOC	Yes
EPD-NSF® Certified	N.A.
MIR-Manufacturer Inventory	N.A.
MPI®	Yes

APPLICATION

On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher. No reduction needed.

Brush:

Use a nylon-polyester brush.

Roller:

Use a high quality polyester roller cover.

For specific brushes and rollers, please refer to our Brush and Roller Guide on sherwin-williams.com

Spray—Airless

Pressure	2000 p.s.i.
Tip	.015-.019 inch

APPLICATION TIPS

Make sure product is completely agitated (mechanically or manually) before use.

Thoroughly follow the recommended surface preparations. Most coating failures are due to inadequate surface preparation or application. Thorough surface preparation will help provide long term protection with **Emerald Rain Refresh** coating. On repaint work, apply one coat of **Emerald Rain Refresh**; on bare surfaces, apply two coats of **Emerald Rain Refresh**, allowing 4 hours drying between coats.

Do not paint in direct sun. Apply at temperatures above 35°F. Paint from a dry area into the adjoining wet coating area. When the air temperature is at 35°F, substrates may be colder; prior to painting, check to be sure the air, surface, and material temperature are above 35°F and at least 5°F above the dew point. Avoid using if rain or snow is expected within 2-3 hours.

Do not apply at air or surface temperatures below 35°F or when air or surface temperatures may drop below 35°F within 48 hours.

Use high bond exterior painter's tape such as ShurTape FROGTAPE® High Bond Exterior Painter's Tape™ (SMIS 651259798) when coated surface requires masking. Allow coating to dry 24 hours prior to applying to surface.

Do not reduce.

SPECIFICATIONS

Emerald Rain Refresh is self-priming on most surfaces. **Emerald Rain Refresh** can be used as a self-priming coating on many bare surfaces. When used this way, the first coat of **Emerald Rain Refresh** acts like a coat of primer and the second coat provides the final appearance and performance.

Apply 2 coats on new, bare substrates or 1 coat for repaints.

Use on these properly prepared surfaces:

Aluminum & Aluminum Siding¹,

Galvanized Steel¹

2 coats Emerald Rain Refresh

Concrete Block, CMU, Split face Block

1 coat Loxon Acrylic Block Surfacers

2 coats Emerald Rain Refresh

Brick Stucco, Cement, Concrete

1 coat Loxon Concrete and Masonry Primer (if needed) or

Loxon Conditioner (if needed)

2 coats Emerald Rain Refresh

Cement Composition Siding-Panels

1 coat Loxon Concrete and Masonry Primer (if needed) or

Loxon Conditioner (if needed)

2 coats Emerald Rain Refresh

Steel

1 coat All Surface Latex Enamel Primer

2 coats Emerald Rain Refresh

*Vinyl Siding

2 coats Emerald Rain Refresh

Wood (Cedar, Redwood)

2 coats Emerald Rain Refresh

Knots and some woods, such as redwood and cedar, contain a high amount of tannin, a colored wood extract. If applied to these bare woods, the first coat of **Emerald Rain Refresh** may show some staining, but it will be trapped in the first coat. A second coat will uniform the appearance. If staining persists, spot prime severe areas with 1 coat of Exterior Oil-Based Wood Primer prior to using **Emerald Rain Refresh**.

Composition Board-Hardboard: Because of the potential for wax bleeding out of the substrate, apply 1 coat of Exterior Oil-Based Wood Primer and then topcoat.

¹ On large expanses of metal siding, the air, surface, and material temperatures must be 50°F or higher. Surfaces with a pH greater than 9 must be primed with a high pH-resistant coating such as Loxon Concrete & Masonry Primer-Sealer.

Standard latex primers cannot be used below 50°F. See specific primer label for that product's application limitations.

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SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Aluminum and Galvanized Steel:

Wash to remove any oil, grease, or other surface contamination. All corrosion must be removed with sandpaper, wire brush, or other abrading method.

Cement Composition Siding-Panels:

Remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. If the surface is new, test it for pH, if the pH is higher than 9, prime with Loxon Concrete & Masonry Primer. After power washing, previously painted masonry may still have a powdery surface that should be sealed with Loxon Conditioner.

Caulking:

Gaps between windows, doors, trim, and other through-wall openings can be filled with the appropriate caulk after priming the surface.

Masonry, Concrete, Cement, Block:

All new surfaces must be cured according to the supplier's recommendations—usually about 30 days. Remove all form release and curing agents. Rough surfaces should be filled to provide a smooth surface. If painting cannot wait 30 days, allow the surface to cure 7 days and prime the surface with Loxon Concrete and Masonry Primer. Cracks, voids, and other holes should be repaired with an elastomeric patch or sealant. Concrete masonry units (CMU) - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Loxon Acrylic Block Surfer. The filler must be thoroughly dry before topcoating.

SURFACE PREPARATION

Mildew:

Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

Previously Painted Surfaces:

Spot prime bare areas with **Emerald Rain Refresh**, wait 4 hours, and paint the entire surface. Some specific surfaces require specialized treatment.

Wood:

Sand any exposed wood to a fresh surface. Patch all holes and imperfections with a wood filler or putty and sand smooth. All patched areas must be primed.

Steel:

Rust and mill scale must be removed using sandpaper, wire brush, or other abrading method. Bare steel must be primed the same day as cleaned.

Stucco:

Remove any loose stucco, efflorescence, or laitance. Allow new stucco to cure at least 30 days before painting. If painting cannot wait 30 days, allow the surface to dry 7 days and prime with Loxon Concrete & Masonry Primer. Repair cracks, voids, and other holes with an elastomeric patch or sealant.

***Vinyl or other PVC Building Products:**

Clean the surface thoroughly by scrubbing with warm, soapy water. Rinse thoroughly, if needed prime with appropriate white primer. Do not paint vinyl with any color darker than the original color or having a Light Reflective Value (LRV) of less than 56 unless VinylSafe® Colors are used. If VinylSafe colors are not used vinyl may warp. Follow all painting guidelines of the vinyl manufacturer when painting. Only paint properly installed vinyl siding. Deviating from the manufacturer's painting guidelines may cause the warranty to be voided.

CAUTIONS

For Exterior use only
Protect from freezing.
Non-photochemically reactive.

Before using, carefully read **CAUTIONS on label**

CRYSTALLINE SILICA, ZINC: Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Adequate ventilation required when sanding or abrading the dried film. If adequate ventilation cannot be provided wear an approved particulate respirator (**NIOSH** approved). Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Abrading or sanding of the dry film may release crystalline silica which has been shown to cause lung damage and cancer under long term exposure. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.