



57460 Dewitt Street • Elkhart, IN 46517-1078 • www.rpiroyaledge.com • 574-293-9096 • 800-628-2957 • Fax 574-294-3450



DESCRIPTION

RPI RE-FLEX COATING is a high solids, water based elastomeric coating that provides a durable, highly reflective and flexible moisture resistant barrier that can be applied with a roller or airless sprayer.

When properly applied, RPI RE-FLEX COATING will dramatically lower the surface and core temperature of the existing roof system.

PROPERTY

TEST METHOD (ASTM) PHYSICAL PROPERTIES

Color	N/A	Std color is white
VOC	EPA Method 24A	20 gm/liter max.
Viscosity	Brookfield RVT, #4 spindle	12,000-15,000cps
Drying Time, Touch	70 °F/50 % R.H.	1-2 hours
Reflectance Initial / Aged	E97	80%min
Flash Point	PMCC	None
Tensile Strength unreinforced	D412	@73° F – 225 psi @ 0° F – 325 psi
Elongation unreinforced	D412	350% min. @ 0° F – 100%
Solids % by weight	D2939	61-62
% by volume	D2697	51-52
pH	N/A	8-10
Moisture Vapor Transmission	E96	0.021
Ultraviolet Exposure – 6000 hrs of Xenon Arc	G25	No cracking, checking, loss of flexibility or discoloration
Water Absorption % max	D471	8.0
Hardness (Min/Max)	D2240	40 Shore A/ 60 Shore
Emissivity	N/A	0.90
Wet Film Thickness, mils	@ 2 gal/100 ft. ²	30-34
Flexibility	@ 2 gal/100 ft. ²	15-17
Fungus Resistance days	N/A	No sustained growth or discoloration after 21
Weight	D2939	10.-10.9 lbs/gal
Specification Compliances :	ASTM D6083	

Maintaining a constant, low roof system temperature will reduce the deterioration and the accelerated ageing process associated with heat build up in epdm, asphalt, and modified bitumen roofs while lowering the demand on the buildings cooling system.

RPI RE-FLEX COATING can be applied over the following substrates:

- EPDM
- Metal
- Smooth Surface Built-Up Asphalt
- Smooth and Granular Modified Bitumen.

Refer to appropriate RPI RE-FLEX Application Guide.

Prior to applying this product to EPDM, the membrane must be thoroughly cleaned and primed with RPI RE-FLEX COATING PRIMER.

APPLICATION INSTRUCTIONS – EPDM MEMBRANE

1. The roofing surface must be clean, dry, smooth, and free of any foreign materials, grease, oil, dirt or rust. It is recommended the existing roof surface and flashings be power washed.
2. Apply RPI RE-FLEX COATING PRIMER. Refer to EPDM System Application Specifications.
3. Coating is supplied ready to use – do not thin. Stir the material slowly to ensure uniformity. **DO NOT MIX AT HIGH SPEEDS.**
4. Using a 3/8" nap paint roller, apply the first coat at a rate of 100 sq. ft. per gallon.. Apply the coating by rolling in one direction. **Note – do not apply when EPDM surface temperature is lower than 40° For higher than 120° F or when rain is expected within the next 48 hours.**
5. After the first coat has fully cured, usually within 24 hours, apply a second coat at a rate of 100 sq. ft. per gallon. The preferred method of application for the second coat is an airless sprayer.
6. When applied with 2 coats at 100 sq. ft. per gallon, the expected wet thickness is 15 - 17 mils and the dry film thickness is 7 - 9 mils per coat.

APPLICATION PRECAUTIONS

Do not apply RPI RE-FLEX COATING when temperatures near or below freezing are forecast before the proper cure time. **DO NOT ALLOW RPI RE-FLEX COATING TO FREEZE.** Do not apply RPI RE-FLEX COATING over wet surfaces (rain or dew), or when rain is forecast before the proper cure time. When spraying, be aware of wind speed and direction. Take precautions to avoid windblown overspray.

PRODUCT DATA

- Available Sizes:** 1 gallon - 5 gallon pail
- Carton Size:** 4 (four) – 1 gallon cans per container, 5 gallons pails sold separately
When applied at a rate of 1 gallon /100 sq. ft., a wet film thickness of 15-17 mils will dry to a film thickness of 7-9 mils.
- Coverage:**
- Cure Times:** When applied at 22 wet mils coating thickness and at conditions of 75° F and 50% humidity, RPI RE-FLEX COATING will dry to the touch in 2-4 hours, but should not be recoated until it has reached full cure – typically 24 hours. Cooler temperatures and/or high humidity may prolong the required cure time.
- Storage:** Store in a cool, dry, well ventilated facility. Keep containers closed when not in use. Keep from freezing.
- Shelf Life:** Shelf life of 12 months can be expected when stored at temperatures between 40° and 80° F in original unopened containers. **Rotate stock.**

PRECAUTIONARY DATA

- **This material should not be allowed to freeze.** If the product has a lumpy, curdled texture when opened it should not be used.
- Use with adequate ventilation. Avoid prolonged breathing of vapors or repeated contact with skin. Keep out of reach of children.
- Do not thin, dilute, or contaminate this material.
- Dispose of waste product and containers according to local, state, and federal regulations.
- Do not apply to asphalt or coal tar unless the surfaces have been primed with Re-Flex Stain Block.



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DESCRIPTION

RPI RE-FLEX COATING PRIMER is a solvent based product that, will dramatically enhance the adhesion performance and durability of RPI Re-Flex Coatings.
 Re-Flex Coating Primer is required over EPDM surfaces.

PROPERTY	PHYSICAL PROPERTIES
Color	Black Liquid
Hazardous Components	Heptane (CAS# 142-82-5) Toluene (CAS# 108-88-3)
Specific Gravity	0.791
Solids Content	17%
VOC	5.51 lb / gal.
Flash Point	-4°C; 25° F
Weight	6.58 lbs / gal.

APPLICATION INSTRUCTIONS

- The roofing surface must be clean, dry, smooth, and free of any foreign materials, grease, oil or dirt. Starting at the highest point on the roof, power wash the EPDM field membrane and flashings. After the cleaned membrane has completely dried, make necessary repairs to membrane, seams, and flashings using RPI Royal Edge EPDM products.
- Thoroughly mix primer before and during use. Re-Flex Primer is flammable. Do not mix using an electric drill or other tool may cause sparks.
- Apply the RE-FLEX COATING PRIMER using a solvent resistant paint roller at a rate not to exceed 250 sq. ft. per gallon. Allow the primer to dry completely. Drying time may be 10 minutes or less under warm, sunny conditions, and longer during cooler temperatures. Use the finger push/touch test to check the primed surface. It should be tacky, not wet.
IMPORTANT: Primed areas should be coated with Re-Flex Coating as soon as the primed application section is dry. Application sections should be approximately five (5') ft. in depth (length of the roller extension), by the width or length of the roof.
- After the primer has dried, apply the RE-FLEX COATING.
 All primed surfaces must be coated immediately after the primer has dried. Do not allow primed surfaces to remain exposed overnight. If the primer is exposed to rain, dew, dust, or other before it is coated, clean and dry the surface, and re-apply the primer.

PRODUCT DATA

- Available Sizes:** 1 gallon & 5 gallon containers
- Carton Size:** 5 gallon pails sold individually
 4 (four) – 1 gallon cans per carton
- Coverage:** Coverage rate is 200 – 250 sq. ft. per gallon.
- Clean Up:** Clean equipment or excess product with RPI Membrane Cleaner.
CAUTION: RPI Membrane Cleaner and Re-Flex Coating Primer are extremely flammable. Read and follow all Precautionary Data recommendations.
- Storage:**
- Store in original unopened containers in a cool, dry well ventilated area at temperatures between 60°F (15.6°C) and 80°F (26.7°C). Store as flammable liquid.
 - Protect from electrostatic charges.
 - Keep primer out of sunlight until material is ready apply
- Shelf Life:**
- The shelf life is approximately 24 months if stored in original unopened containers at temperatures between 60° and 80°F
 - Shelf life will be shortened is exposed to elevated temperature.

PRECAUTIONARY DATA

- This product is flammable. Keep away from fires and (open flame) and other possible ignition sources during storage and use. Do Not Smoke when using.
- Red caution labels are required when shipping.
- For professional use only.
- Use only in well ventilated areas.
- Eye protection and neoprene or nitrile glove are recommended.
- Mix before and during use.
- Refer to Mateial Safety Data Sheet (MSDS) for more information.
- Toxic to aquatic life. Do not contaminate ground water course or sewage systems. Dispose of waste product and containers according to local, state, and Federal regulations.

WARNING: This product contains a chemical known to the State of California to cause birth defects, or other reproductive harm.