

RE-FLEX 
COATING

EPDM APPLICATION GUIDE



RPI

Roofing Products International, Inc.

RPI RE-FLEX COATING EPDM APPLICATION

PREPARE EXISTING EPDM MEMBRANE ROOF AND FLASHINGS

All roof surfaces including flashings and curbs must be thoroughly cleaned before applying **RPI RE-FLEX COATING**.



EPDM ROOF TO BE COATED



POWER WASH EXISTING MEMBRANE AND ROOF FLASHINGS

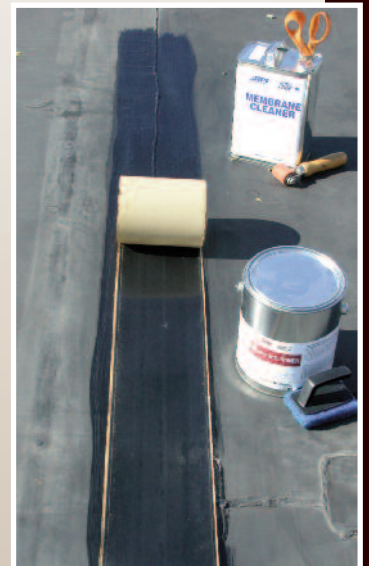
Required equipment: High Pressure Power Washer with a minimum 3,000 PSI; Leaf Blower; Push Brooms.

Use a leaf blower or push broom to remove loose debris and dust from the field membrane and flashings. After all debris is removed, begin power washing using

a four (4") inch to six (6") inch fan tip starting at the highest point on the roof, washing down slope towards the gutter, metal drip edge, or roof drains.

NOTE: When using a power washer, do not use a zero degree (0°) tip or power wash against the membrane seam or flashing edges. This could result in damage to the membrane and flashings. Allow the membrane to dry.

MAKE NECESSARY MEMBRANE AND FLASHING REPAIRS USING RPI ROYAL EDGE EPDM PRODUCTS



APPLICATION OF COATING PRIMER



APPLY RPI RE-FLEX PRIMER

After the roof and flashings have been power washed and all repairs completed, open and stir **RPI RE-FLEX COATING PRIMER** with a wooden paddle. Do not use an electric drill or other tool that might generate a spark. Ensure there is adequate ventilation when applying the primer. Do not allow vapors to enter the building through open windows or ventilation duct work. **DO NOT SMOKE OR EXPOSE PRIMER OR PRIMER FUMES/VAPORS TO SPARKS OR OPEN FLAME.** Read product label for additional application and precaution instructions.

Apply **RPI RE-FLEX COATING PRIMER** to the cleaned EPDM membrane resistant paint roller. Avoid primer contact with skin.

Required Equipment: four (4") inch and nine (9") inch solvent resistant roller cover and roller; long roller extension handle/pole; three (3") masking tape - use three (3") inch masking tape to define primed and coated areas, straight lines (walls), and prevent overspray.



PRIME WALL FLASHING

RPI RE-FLEX COATING PRIMER must be applied with solvent resistant rollers. **DO NOT APPLY RE-FLEX COATING PRIMER USING A SPRAYER.**

Because the first coat of **RPI RE-FLEX COATING** must be applied using a roller, the application of Coating Primer in sections should be closely followed.

Beginning at the perimeters, using a long handled solvent resistant roller, apply **RPI RE-FLEX COATING PRIMER** at a rate of 200 to 250 sq. ft. per gallon to the field membrane surface and flashings. Apply the Coating Primer in application sections from four (4') ft. to five (5') ft. in depth (the length of the roller handle extension), by the width or length of the roof. Drying time is dependent upon current temperature and moisture conditions. Apply the primer thin enough to minimize the formation of micro bubbles. The Coating Primer will dry to a dull black finish. Expected drying time on a dry, sunny 70°F day could be fifteen minutes.



DO NOT WALK ON, OR ALLOW FRESHLY PRIMED AREAS TO BE CONTAMINATED WITH DUST OR DEBRIS.

Apply **RPI RE-FLEX COATING PRIMER** only to areas which can be coated with **RPI RE-FLEX COATING** immediately after the Coating Primer

has dried. Do not allow the Coating Primer to remain exposed for long periods or overnight. Contamination from windblown dust, debris, and moisture will adversely affect the performance of the **RPI RE-FLEX COATING PRIMER**. Do not apply Coating Primer to a damp or wet roof surface.

Before applying the first coat of **RE-FLEX COATING**, test the coating for proper dryness by applying finger pressure. The Coating Primer should be dry and tacky, not wet and stringy.

APPLICATION OF FIRST COAT

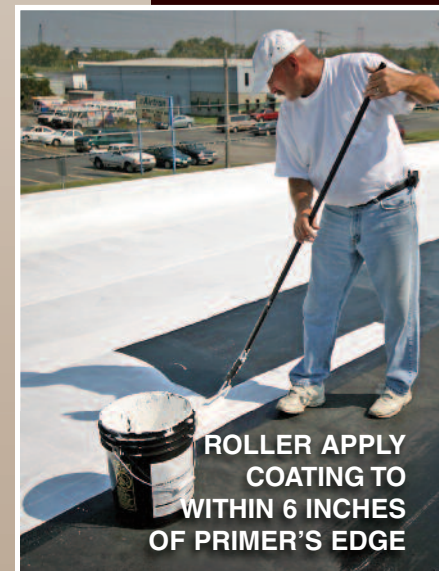
IMPORTANT: DO NOT SPRAY APPLY THE FIRST COAT OF RE-FLEX COATING. Proper adhesion can only be attained by rolling the first coat onto the primed area.

Open and thoroughly mix each pail of **RE-FLEX COATING** using a cordless or electric drill and mixing paddle. Do not mix air (high speed) into the material.



Begin the application where the Coating Primer was first applied. Using a nine (9") inch roller, apply the **RE-FLEX COATING** at a rate of 100 square feet per gallon over the primed area. It is recommended during the application process to occasionally measure a 100 square foot area and apply one (1) gallon of coating to maintain the proper coverage. Allow approximately six (6") inches of Coating Primer to remain exposed (where the next

application of Coating Primer will overlap). As one application section is completed, another section is begun and completed until the first coat has been installed.



Allow the first coat of **RE-FLEX COATING** to cure before applying the second coat. Cure time is dependent upon ambient temperature and air moisture levels. Sunny days with moderate temperatures and low humidity will reduce cure time before the second coat can be applied (over-night to 24 hours). Overcast days with cool temperatures and higher moisture levels will prolong the cure time (24 to 48 hours). **RPI RE-FLEX COATING** should not be applied over moisture or dew, or if rain is expected during the cure time. **DO NOT APPLY RPI RE-FLEX COATING WHEN EPDM SURFACE TEMPERATURE IS LOWER THAN 40°F OR HIGHER THAN 120°F.**

APPLICATION OF SECOND COAT



SPRAY SECOND
COAT OF RE-FLEX COATING

(ROLLER APPLIED)

After the first coat cure-time is complete, apply the second coat using a nine (9") solvent resistant roller.

Apply the second coat at a rate of 100 square feet per gallon by applying the coating across the roll pattern of the first coat. This "cross hatch" method will promote a more uniform coverage.

NOTE: This application is better suited to small projects that may not require the use of spray equipment.



SPRAY EQUIPMENT

(AIRLESS SPRAYER)

Spray Equipment:

Electric Airless Sprayer capable of spraying 1-3 GPM, .029-.037 tip.

Graco Ultra Max II 1050/1595 Model Sprayer

Gas Powered :

Graco 733 Roof Rigs, GMax II 5900/7900.

Apply the second coat using an airless sprayer at a rate of 100 square feet per gallon. When applied at a rate of 1 gallon per 100 square feet, the wet film thickness of 15 mils will achieve a dry film of 7 mils per gallon.

ADDITIONAL INFORMATION

The application of coatings or use of repair products not sold or supplied by RPI under the ReFlex label, will void RPI EPDM/TPO Membrane Only Warranties.

Clean-Up

RPI RE-FLEX COATING PRIMER should be cleaned with membrane cleaner. **RPI RE-FLEX COATING** should be cleaned using water. Dispose of waste products and containers according to local, state, and federal regulations.

Limitations:

Do not allow **RE-FLEX** products to freeze. Store in unopened containers at 40° F to 80° F.

RPI RE-FLEX COATING should not be applied when weather conditions do not allow for proper cure-time.

Do not apply unless the ambient temperature is 50° F and rising.

Do not apply if frost or freezing temperatures are forecast.

Do not thin **RPI RE-FLEX COATING** or **RPI RE-FLEX COATING PRIMER**.

This document is intended as a general guideline. If the actual project conditions are such as to be outside the scope of the normal waterproofing and coating practices that are referenced in these instructions, steps should be taken to insure the restoration remains in compliance with nationally recognized waterproofing practices such as those found in the National Roofing Contractors Association Manual.

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