



EPDM APPLICATION GUIDE



Royal Edge EPDM Application Instructions

PREPARE EXISTING EPDM MEMBRANE ROOF AND FLASHINGS

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



EPDM ROOF TO BE COATED



POWER WASH EXISTING MEMBRANE AND ROOF FLASHINGS

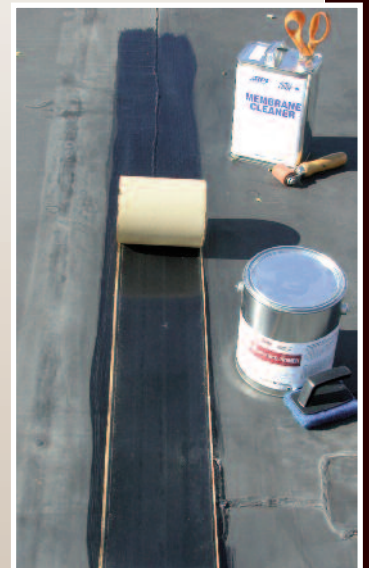
Required equipment: High Pressure Power Washer with a minimum 3,000 PSI; Leaf Blower; Push Brooms.

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 ten (10") 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 ALL NECESSARY MEMBRANE AND FLASHING REPAIRS USING RPI ROYAL EDGE EPDM PRODUCTS



APPLICATION OF COATING PRIMER



APPLY ROYAL EDGE RE-FLEX PRIMER

After the roof and flashings have been power washed and all repairs are completed, open and stir **Royal Edge RE-FLEX COATING PRIMER** with a paddle or electric drill mixer attachment. Ensure there is adequate ventilation when applying the primer. Do not allow vapors to enter the building thru open windows. Read product label for additional product application and precaution instructions.

Apply **Royal Edge RE-FLEXCOATING PRIMER** to the cleaned EPDM membrane surface with a 3/8 inch 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

Royal Edge RE-FLEX COATING PRIMER may be applied with solvent resistant rollers or airless sprayer. It is recommended that sprayed applications also be rolled in to achieve maximum product performance. Over application (heavy) may cause micro bubbles to form in the primer. Bubbles can be removed by hand rolling the primer.

Beginning at the perimeters, using a long handled solvent resistant roller, apply **Royal Edge 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. 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 **Royal Edge RE-FLEX COATING PRIMER** only to areas which can be coated with **Royal Edge RE-FLEX COATING** immediately after the Coating

Primer has dried. Do not allow the Coating Primer to remain exposed for long periods or overnight. Any contamination from windblown dust, debris, and moisture will adversely affect the performance of the primer. Do not apply Coating Primer to a damp or wet roof surface.

Before applying the first coat of **Royal Edge 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.

FIRST COAT APPLICATION

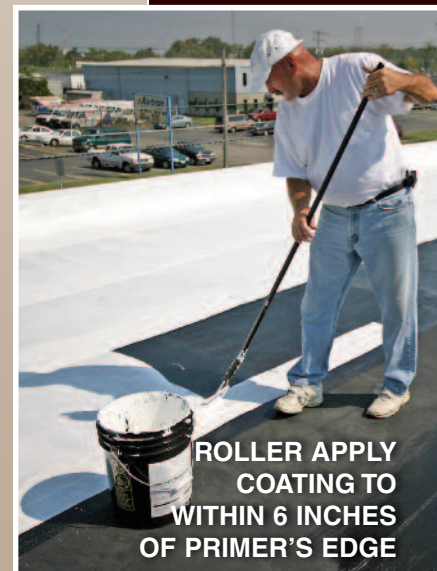
IMPORTANT: DO NOT SPRAY APPLY THE FIRST COAT OF Royal Edge RE-FLEX COATING. Proper adhesion can only be attained by rolling the first coat onto the primed area.

Open and thoroughly mix each pail of **Royal Edge 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 **Royal Edge RE-FLEX COATING** at a rate of 100 square feet per gallon over the primed area. It is highly recommended during the application process to occasionally measure a 100 square foot area and apply one (1) gallon of coating to maintain the proper application coverage.

Allow approximately six (6") inches of Coating Primer to remain exposed (where the next application of Coating Primer will overlap), and continue until the first coat has been installed.



Allow the first coat of **Royal Edge 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). **Royal Edge RE-FLEX COATING** should not be applied over moisture or dew, or if rain is expected during the cure time. **DO NOT APPLY ROYAL EDGE RE-FLEX COATING WHEN EPDM SURFACE TEMPERATURE IS LOWER THAN 40°F OR HIGHER THAN 120°F.**

APPLICATION OF SECOND COAT



SPRAY APPLY SECOND COAT OF ROYAL EDGE 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 Royal Edge label, will void RPI EPDM/TPO Membrane Only Warranties.

Clean-Up

When wet, **Royal Edge RE-FLEX COATING PRIMER** and **Royal Edge RE-FLEX COATING** may be cleaned using soap and water. Dispose of waste products and containers according to local, state, and federal regulations.

Limitations:

Do not allow **ROYAL EDGE** products to freeze. Store in unopened containers at 40°F to 80°F.

Royal Edge 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 **Royal Edge RE-FLEX COATING** or **Royal Edge 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.

**ROYAL
EDGE** 

RPI

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