



BULLDOG/DUREX EPDM Roof Restoration System

DESCRIPTION

BULLDOG/DUREX Elastomeric Coatings are water-borne products formulated with 100% acrylic resins. When properly applied these coatings create a seamless, fluid applied membrane system for use on a variety of surfaces. BULLDOG/DUREX#TC101 White is Energy Star® listed. These coatings applied in white or lighter pigmented formulations are known as a cool roof coating.

BULLDOG/DUREX EPDM Restoration System is for aged EPDM single ply membranes. This system reinforces all applicable seams and provides a monolithic coating that will protect the roof membrane and add years to the roof life. This system once applied provides the basis for a sustainable and easily maintainable roof system. The long term cost benefits offered by this coating include lower life cycle costs and energy savings.

MATERIALS

BULLDOG/DUREX #BC123 Base Coat Gray
BULLDOG/DUREX #TC101 Top Coat White –
colors available
#272 BULLDOG Stitchbond Polyester Fabric
#115 BULLDOG/DUREX EPDM Rinseable Primer

APPLICATION EQUIPMENT

Elastomeric Coatings: Apply by brush, roller or spray. Rollers should be medium or long nap. Suggested spray equipment: airless spray capable of 2500 – 3000 psi with an output of 2 – 2.5 gallons per minute. Tips size: .027 - .041.
EPDM Rinseable Primer: Use a Hudson sprayer (agricultural type sprayer), adjust nozzle for uniform spray application. Airless Spray: Use a reversible tip with a size of .015 - .019.

ROOF INSPECTION

At the planning stage of job inspect all areas of roof to identify where moisture may be entering. Determine integrity of all roof seams. Make repairs to all seams. Inspect all flashings, parapets, roof mounted equipment, curbs, drains and protrusions for water tightness.

Determine if there is moisture content in the existing substrate, insulation and deck. Any wet insulation should be removed and replaced with similar insulation and roofing materials.

The roof surface should not have any ponding water. Ponding water is defined by areas of a roof that exhibit standing water 48 hours after rainfall. These roof areas or roofs are unacceptable for the use of water based acrylic roof coatings. A roof should have positive slope to drain.

INSTALLATION

Installation of BULLDOG / DUREX EPDM Restoration System is accomplished by the following:

- 1) surface preparation – application of EPDM Rinseable Primer
- 2) seam repair if necessary
- 3) application of fluid applied membrane
- 4) inspection

PREPARATION

DUREX coatings must have a clean surface for proper adhesion. Proper surface preparation is the key to successful applications. All dirt, debris, oils etc. must be removed by the most effective method possible. High pressure water is the recommended method.

PRIMER APPLICATION

EPDM roofs must be washed with #115 BULLDOG/DUREX EPDM Rinseable Primer as per product instructions. #115 is applied to roof surface with Hudson sprayer or low pressure spray in a uniform manner to completely cover membrane. Let the primer stand for 5 – 15 minutes to react with EPDM membrane and then power wash off roof. Primer left on roof for longer amounts of time or left to dry will not inhibit effectiveness. Power wash roof with clean water using a minimum pressure of 2000 psi. Care should be taken during power washing not to disrupt seams. Power wash from low point of roof working upward and then work down again for second and final rinse. Wash roof into drains. Take care to wash thoroughly around all drains so this area is free from any residual primer.

Aged EPDM roofs after cleaning should look shiny black in color. This is indicative that the roof surface is treated for the application of the DUREX Elastomeric Coating.

REPAIR

All necessary repairs must be done according to good construction practices. Seams should be checked for water tightness. Any loose or peeling seams should be cut back to the area where the seam is adhered. Apply BULLDOG/DUREX #BC123 over the seam and imbed #272 BULLDOG Stitch-bond Polyester Fabric in 6" width centered over the seam. Lightly tamp fabric into the wet coating to promote bleed through of coating. Make sure there second coat of BC123 directly over fabric. Material Required per 100 lineal feet: 1 ½ to 2 gallons

All flashings, penetrations, transitions, and other detail areas require the same treatment.

The use of applicable self adhered membranes and tapes may be used on seams and penetrations. Palmer Asphalt Company shall be advised for use in issuance of applicable warranty the brand and product number of all self adhered products used not of the manufacture of Palmer Asphalt Company. Consult factory or sales representative prior to use for warranted applications.

ELASTOMERIC COATING APPLICATION

MINIMUM APPLICATION

The suggested minimum application is two gallons per 100 square feet applied in two equal coats of one gallon per 100 square feet per coat.

Apply #BC123 – Base Coat to the prepared surface by roller or spray. Apply at the rate of 1 gallon per 100 square feet. Allow to dry.

Apply #TC101 Top Coat White (or selected color) to the cured base coat at the rate of one gallon per 100 square feet. Allow to dry.

5 Year Standard Material Warranty

1) Apply DUREX #BC123 (gray color) in a uniform manner at the minimum application rate of 1 gallon per 100 square feet.

2) Apply DUREX #TC101 top coat in white or selected color (colors are additional charge) in a uniform manner at the rate of 1.5 gallons of 100 square feet. Apply top coat perpendicular to the base coat. The total minimum dry film thickness at any location should be 20 mils.

Base Coat is provided in an alternate color to that of the top coat in order to assist the applicator in determining that proper coverage is achieved.

10 Year Standard Material Warranty

1) Base Coat: Apply #BC123 in a uniform manner at the minimum application rate of 1.25 gallons per 100 square feet. Allow to dry a minimum of 2 to 4 hours prior to application of subsequent coats.

2) Intermediate Coat: Apply second or intermediate coat using DUREX #TC101 in a uniform manner at the minimum application rate of 1.25 gallon per 100 square feet. Allow to dry a minimum of 2 to 4 hours prior to application of subsequent coats.

3) Finish Coat: Apply final coat perpendicular to intermediate coat at the rate of 1.25 gallons per 100 square feet.

The total minimum dry film thickness at any location should be 31 mils.

Notes: Each consecutive application of coating should be applied in a perpendicular direction to the previous coat. During the final application special attention should be given to coating flashings and other critical areas to build adequate membrane thickness.

INSPECTION

Inspect entire roof area and touch up deficient areas with additional DUREX #TC101 as necessary to insure complete and uniform coverage.

CLEAN UP

Clean all tools and over applied areas with soap and water before coating dries. Clean all pumps, and application equipment immediately following use before coating dries.



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LIMITATIONS

These are general guidelines. If unusual conditions exist contact Palmer Asphalt Company at 800-352-9898.

BULLDOG/DUREX Elastomeric Coatings must be applied to structurally sound substrates. All surfaces must be clean and dry prior to application. The suitability of BULLDOG coatings or systems for an intended use shall be solely up to the user. Drying time and coverage are not guaranteed. BULLDOG coatings must not be applied over areas of wet insulation. Failure of the substrate does not constitute failure of the coating or system. BULLDOG/ DUREX Elastomeric Coatings are designed for use on well drained roofs and are not acceptable for use on areas that pond water. BULLDOG/DUREX coatings should not be applied when rain or freezing temperatures are expected before coating has sufficient time to dry. Coating not intended to bear furniture, etc.

DISCLAIMER OF WARRANTY

BULLDOG/DUREX Coatings offer a 5 Year and 10 Year Material Warranty when applied in strict accordance with all of the written requirements and recommendations and required dry film thickness are achieved. The sole responsibility under this limited material warranty is for defective material and the obligation shall not exceed the purchase price of the BULLDOG/ DUREX materials. Submittal of required documentation is required for warranty. This warranty gives specific legal rights and you may have other legal rights that vary from state to state. No statement may supersede this limited material warranty, except when in writing and provided by Palmer Asphalt Company. Written warranty is provided after any and all required inspections are complete and all required documentation is provided to Palmer Asphalt Company. Warranty is void if complete payment to applicator, seller and Palmer Asphalt Company.