



BULLDOG/DUREX ELASTOMERIC SYSTEM

Modified Bitumen Specification (MB System)

DESCRIPTION

BULLDOG / DUREX Elastomeric Coatings are waterborne products formulated with 100% acrylic resins. When applied these products create a seamless, fluid applied membrane system for use on a variety of surfaces. BULLDOG / DUREX MB Systems are designed for use on Modified Bitumen roofs.

MATERIALS

BULLDOG / DUREX BC 123 Base Coat
BULLDOG / DUREX TC 101 Top Coat
#272 Polyester Membrane
#112 BULLDOG / DUREX Stain Block Primer

APPLICATION EQUIPMENT

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. Tip size: .027 - .041

ROOF INSPECTION

At planning stage of job inspect all areas of roof to identify points of water entry. Determine integrity of all roof seams. Make repairs to all roof seams. Inspect all flashings and protrusions for water tightness. To qualify for warranty roof should be scanned with appropriate testing device to determine any presence of moisture in the roof insulation. Any wet insulation must be completely removed and replaced with like insulation and roofing membrane in affected areas.

INSTALLATION

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

- 1) surface preparation
- 2) repair
- 3) priming where necessary
- 4) application of fluid applied membrane

PREPARATION

Proper surface preparation is essential for the successful application of any coating. All dirt, debris and any contaminants that can interfere with adhesion of coatings must be remediated. High pressure washing with water (2000 psi) is the preferred method of cleaning. Stiff brooming and blowing of loose dirt is also advisable.

Use tape test to determine if further cleaning is necessary. Tape test is accomplished by applying masking tape to surface to be coated and then peeled off. If the adhesive side of the tape exhibits material that will interfere with adhesion of coating then further cleaning of surface will be necessary.

SEVERELY ALLIGATORROOF ROOFS:

On alligatored asphalt roof surfaces it is recommended that a coat of #401AF BULLDOG Fibered Emulsion Coating be applied at the minimum rate of 3 gallons per 100 square feet or as necessary as a filler coat to create a smooth surface. Allow emulsion coat to weather 10 days prior the application of DUREX coatings.

REPAIR

Make all necessary repairs to seams and blisters using BULLDOG mastics and emulsion coatings where required. Contact Palmer Asphalt Company for detail if necessary.

At this stage any wet insulation must be removed and replaced with like material and roof should be built up to match present roof system.

PRIMING

On newly applied modified bitumen roofs apply #112 BULLDOG Stain Block Primer, to retard bleed through of asphalt, at the rate of 250 square feet per gallon. Primer dries in approximately 2- 4 hours.

APPLICATION OF DUREX FLUID APPLIED MEMBRANE

- 1) Reinforce all protrusions, transitions and other detail areas using the appropriate size #272 Polyester membrane as reinforcement. Apply heavy coat of DUREX BC 123 and imbed membrane in wet coating. Tamp membrane into coating to accelerate bleed through. Apply additional coat of DUREX BC 123 on top of membrane. Make sure there are no voids, air pockets or fishmouths in the membrane.

MATERIAL REQUIRED TO APPLY POLYESTER
6" Polyester 1.5 gallons–2 gallons per 100 lineal feet
12" Polyester 3–4 gallons per 100 lineal feet

BULLDOG / DUREX MB #5 System
Standard 5 Year Material Warranty

1. Base Coat: Apply first coat of fluid applied membrane using DUREX BC 123 at the minimum rate of 1.5 gallons per 100 square feet. Allow to dry a minimum of 2 – 4 hours.
2. Top Coat: Apply DUREX TC 101 in selected color at the minimum rate of 1.5 gallons per 100 square feet perpendicular to the base coat.

This will yield a membrane thickness of approximately 24 mils.

BULLDOG / DUREX MB #10
Standard 10 Year Material Warranty

1. Base Coat: Apply DUREX BC 123 at the minimum rate of 1.25 gallons per 100 square feet in a uniform manner. Allow to dry a minimum of 2–4 hours.
2. Intermediate Coat: Apply DUREX TC 101 at the minimum rate of 1.25 gallons per 100 square feet in a uniform manner. Allow to dry a minimum of 2 – 4 hours. Apply perpendicular to base coat.
3. Top Coat: Apply final coat of DUREX TC 101 at the minimum rate of 1.25 gallons per 100 square feet in uniform manner.

This will yield a membrane thickness of approximately 31 mils.

NOTES:

- 1) The basecoat, intermediate and topcoat is the same formulated product with the exception of the color. The basecoat, intermediate coat is supplied in an alternate color to that of the topcoat to assist the applicator in applying the correct amount of material.
- 2) Apply when temperatures are a minimum of 50° F and rising and there is no rain imminent for 24 hours.
- 3) Dry time depends upon temperature, direct sunlight, air movement, relative humidity and dew point. The higher the humidity the longer the cure time. Do not apply when rain, dense fog, or freezing temperatures are possible within 24 hours after application. It is the responsibility of the applicator to determine if the present and forecasted weather conditions are acceptable for application of waterborne coatings.
- 4) Application rates can vary depending upon porosity of surface to which coating is applied and irregularity of substrate to which product is applied.
- 5) APP modified bitumen roofs that have not been previously coated with a reflective coating typically will show signs of alligatoring on the surface. This requires the use of BULLDOG Fibered Emulsion Coating as advised in the specification. The use of this coating will add a layer of waterproofing protection as well as create a smooth surface that will reduce the amount of DUREX Elastomeric coating otherwise required to fill in these surface voids.
- 6) SBS Modified Bitumen roofs are typically granulated. If applying by roller, please note that loose granules will most likely be picked up by the roller that will necessitate the frequent change of rollers during application.

It is recommended that 10% be added to material requirements for estimating use. Total material requirements are the responsibility of the applicator or purchaser of the product.

NOT FOR USE UNDER PONDING WATER

6/08

Modified Bitumen Roof Spec

APPLICATION TEMPERATURES

This is a waterborne product and should not be applied below temperatures of 50°F. Under proper conditions the coating will cure between 2 – 4 hours. High humidity will retard dry time. Allow base coat to thoroughly dry prior to application of successive coats.

INSPECTION

Visually inspect the entire roof and touch with additional DUREX Elastomeric Coating as necessary to insure adequate 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.

DISCLAIMER OF WARRANTY

The application procedures and other information contained herein or on any other literature or on the labels of any of our products is intended to provide a guide for the general use, handling, and storage of products produced by Palmer Asphalt Company and is based upon ideas that are well tested and believed to be reliable. Palmer Asphalt Company hereby disclaims all warranties, either expressed or implied, since it cannot control workmanship, weather, quality of other materials used, and other variables that might affect the results. Liability under this warranty is limited to the replacement of our material or refund of its cost at our option. This Company does not authorize any agent or any representative to make any warranty.

6/08

Modified Bitumen Roof Spec