



# BULLDOG/DUREX MRS SYSTEM

## Metal Roofing System

### DESCRIPTION

BULLDOG / DUREX Elastomeric Coatings are water-borne products formulated with 100% acrylic resins. When applied these products create a seamless, fluid applied membrane system designed for use on a variety of surfaces. BULLDOG / DUREX MRS Systems are designed for use on metal substrates.

### MATERIALS

BULLDOG / DUREX TC 101 Finish Coat  
BULLDOG / DUREX BC 123 Basecoat  
#272 Polyester Membrane  
#130 BULLDOG / DUREX Flashing Grade  
#113 BULLDOG / DUREX Rust Inhibitive Primer

### APPLICATION EQUIPMENT

Apply with 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 where moisture may be entering. Determine integrity of all roofing seams. Make repairs to all seams. Inspect all flashings and protrusions for water tightness. Remove and replace any metal panels not structurally sound or in severely deteriorated condition that exhibits holes or voids that may have rust that is undermining the integrity of the metal panel.

### INSTALLATION

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

- 1) surface preparation
- 2) repair
- 3) priming
- 4) treatment of seams, fasteners, and details
- 5) 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. Pressure washing is the preferred method of cleaning. DUREX coatings cannot be applied on rusted surfaces. All loose dirt and debris should be removed via vacuuming, blowing and sweeping.

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.

### REPAIR

All necessary repairs will be done according to good construction practices including the replacement of all metal panels that are deemed unsalvageable or unsafe. All fasteners should be checked for tightness and all missing fasteners and washers should be replaced using a larger diameter fastener.

### PRIMING

After rust has been removed surfaces should be primed with #113 BULLDOG / DUREX Rust Inhibitive Primer. Apply primer at the rate of 1 gallon per 200 square feet.

### TREATMENT OF SEAMS, FASTENERS and DETAILS

All applicable seams, fasteners and protrusions should be reinforced using #272 Polyester Fabric as needed. Apply #123 Basecoat to the seam or applicable area and imbed polyester into wet coating. Allow slight bleed through of the coating by tamping the membrane into the coating. Apply additional coating to top of fabric taking care to completely seal fabric avoiding wrinkles and fishmouths. Feather membrane by cutting to apply around cylindrical protrusions.

### MATERIAL REQUIRED TO APPLY POLYESTER

6" Polyester 1.5 – 2 gallons per 100 lineal feet

12" Polyester 3 – 4 gallons per 100 lineal feet

### FASTENERS

Tighten any loose fasteners and replace any missing fasteners with larger fasteners of a larger diameter. Apply a heavy dab of #130 Flashing Grade to the fastener head. One gallon of flashing grade will treat approximately 600 fastener heads. BULLDOG Kwik Cap self adhered tapes are an alternative method of use.

## **APPLICATION OF DUREX FLUID APPLIED MEMBRANE**

### **BULLDOG / DUREX MRS – 5 System Standard 5 Year Material Warranty**

1. Basecoat: Apply DUREX BC 123 basecoat at the minimum rate of 1 gallon per 100 square feet in a uniform manner. Allow to dry a minimum of 2 – 4 hours. This product is generally supplied in a gray color.
2. Top Coat: Apply DUREX TC 101 as the second and final coat at the minimum rate of 1 gallon per 100 square feet on top of the cured basecoat.

This will yield a membrane thickness of 16 mils

### **BULLDOG / DUREX MRS – 10 System Standard 10 Year Material Warranty**

1. Basecoat: Apply DUREX BC 123 basecoat at the minimum rate of 1 ½ gallons per 100 square feet in a uniform manner. Allow to dry a minimum of 2 – 4 hours. This product is applied in a gray color.
2. Top Coat: Apply DUREX TC 101 as the second and final coat at the minimum rate of 1 ½ gallons per 100 square feet on top of cured basecoat. TC 101 is available in a variety of colors.

This will yield a membrane thickness of 24 mils.

#### **NOTES:**

- 1) The basecoat and topcoat is the same formulated product with the exception of the color. The basecoat 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.

#### **APPLICATION EQUIPMENT**

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.

#### **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.