

# **FlexDeck Waterproofing Membrane**

## Installation Manual

### Introduction to Adhered FlexDeck Membranes

The FlexDeck System is a Thermoplastic reinforced deck waterproofing membrane that is adhered directly to a wood or concrete substrate, which in turn has been fastened or otherwise secured to the structure by others.

### Adhered System

The FlexDeck Product is fully adhered using either Flex WB (water based) FA636 Bonding Adhesive, Flex LA432M Low VOC Adhesive or Flex 2375 solvent based Bonding Adhesive, to a smooth prepared, pre-secured substrate. All seams and/or terminations are then hot-air welded to produce a watertight seal.

FlexDeck membranes are ideal for adhering to decks due to the high quality internal reinforcements combined with the high quality coating. The finished FlexDeck membrane is stress free and will not delaminate under adverse conditions including "ponding" or standing water. FlexDeck membranes also withstand extreme temperatures as well as remaining stable through repeated freeze/thaw cycles.

FlexDeck WB FA636 Membrane Laminating Adhesive:

- Cold process water based adhesive used for one sided application.
- Adhesive must be applied to a surface that is dry and clean of all foreign matter.
- Adhesive can be applied with a brush or paint roller at an approximate rate of 165 square feet per gallon depending on the substrate.
- FlexDeck product should be rolled out, then take half of the sheet and fold it back, and then apply the Flex WB FA636 Adhesive on the exposed substrate. Then roll the membrane into the wet adhesive and broom to ensure an even adhesion.

## FlexDeck 2375 Solvent Based Bonding Adhesive or LA432M Low VOC Bonding Adhesive

- Used for two side application.
- Adhesive must be applied to a surface that is dry and clean of all foreign matter and the back side of the FlexDeck Membrane.
- Adhesive can be applied with a brush or paint roller at an approximate rate of 60 square feet per gallon 2 sided application depending on the substrate.
- FlexDeck product should be rolled out, then take half of the sheet and fold it back, and then apply the Flex 2375 Bonding Adhesive or the Flex LA432M Low VOC Bonding Adhesive on the exposed substrate and the back of the membrane. Allow adequate time for the adhesive to dry to the touch. Approximately 15 - 30 minutes depending on ambient temperatures. Then roll the membrane into the dry adhesive and broom to ensure an even adhesion.

### **FlexDeck Products & Accessories**

- FlexDeck Slate Black (76"x100' rolls)
- FlexDeck Beige (76"x100' rolls)
- FlexDeck Green (76"x100' rolls)
- FlexDeck FA636 Bonding Adhesive (Water Based)
- FlexDeck LA432M Low VOC Bonding Adhesive
- FlexDeck 2375 Bonding Adhesive (Solvent Based)
- FlexDeck Clad Metal
- FlexDeck Termination Bar
- FlexDeck Drain
- FlexDeck Inside Corner
- FlexDeck Outside Corner
- Flex Deck Post Boot
- Flex Standard Fasteners

CAUTION: Do not use solvent based membrane cleaners such as Acetone or MEK on this product. Damage to the surface finish may occur.

### **FlexDeck Quick Tips & Job Conditions**

#### **Quick Tips:**

1 - Always walk the deck prior to quoting and/or beginning installation. Look for any protrusions such as nail or screw heads, or construction materials, (Plaster, etc.), and the general condition of the deck surface. Also look to ensure the proper type of materials and construction requirements have been used.

2 - Sweep or vacuum the deck off and ensure it is clean before laying the membrane. Take a real close look again to ensure the deck is acceptable for membrane installation.

3 - Once membrane is fully adhered, immediately hot-air weld all seams to create a watertight seal.

**Job Conditions:**

A - Only as much of the new waterproofing as can be made watertight each day, including all flashings and detail work shall be installed. All seams shall be completed by hot-air welding.

B - All Surfaces to receive new membrane or flashings shall be clean and dry. Should surface moisture occur, the applicator shall provide the necessary equipment to thoroughly dry the substrate prior to application unless previously arranged with the contractor or builder.

C - Prior to and during application, all dirt, debris and dust shall be removed from surfaces, either by vacuuming, sweeping, blowing with compressed air or a leaf blower and/or similar methods.

D - Contaminants such as, but not limited to, grease, oils, solvents and tar shall not be allowed to come in to contact with the membrane.

E - Precautions should be taken when using adhesives or sealants at or near fresh air intakes or vents to prevent odors from entering the building and effecting others.

F - Flammable adhesives, or materials, shall not be stored or used in the vicinity of open flames, sparks and excessive heat.

G - Flex requires that in the rare event of a warranty claim, the owner shall allow the FlexDeck applicator, our agents and/or employees access to visually inspect the area in question and, if necessary, take physical samples for testing purposes. NO Claim will be honored without an inspection or written acknowledgement from Flex Membrane International Corp.

**Hot-Air Welding of Seam Overlaps**

- All seams shall be hot-air welded. Seam overlaps should be a minimum of 1.5" wide, except for certain details or as per Flex's requirements.
- Recommended welding equipment is the BAK hand welder, available from Flex Membrane International Corp.
- All membrane to be welded shall be clean and dry. No adhesives shall be present within the lap areas.
- Applicator shall check all welded seams for continuity using a seam probe. On-site evaluations of welded seams shall be made to all seams on every project. Any voids or un-welded areas must be properly welded before proceeding.

**Thank you for choosing FlexDeck Products for your deck waterproofing needs**

**Disclaimer**

This information and recommendations contained herein are offered as a service to our customers and are not intended to relieve the user from responsibility. The information and recommendations provided, are believed By Flex Membrane International Corp. to be accurate at the time of preparation, or obtained by sources believed to be generally reliable. Flex Membrane International Corp. makes no warranty concerning there accuracy and will not be liable for claims relating to any use regardless of whether it claimed that the information or recommendations are inaccurate, incomplete, or otherwise misleading.