

# **RedLINE® INSTALLATION GUIDE**

**FOR USE WITH:**  
**THERMOSET (EPDM) SINGLE-PLY ROOFING MEMBRANE**

## **INTRODUCTION**

Use this installation technique to install RedLINE into M1 structural adhesive, supplied by Chemlink, as a tie-in method to EPDM membranes. This process involves setting the RedLINE fleece-flange into in a full bed of M1 structural adhesive to the EPDM membrane and subsequently flashing in the top of the RedLINE flange with EPDM set in M1.

The RedLINE joint waterproofing material is shipped to the job site in a roll. The description of the technique given is valid for all thermoset membranes, although this method of installation is used mainly for EPDM roofing membranes. Particular attention must be paid to the application on aged membranes, as the condition of an existing membrane can vary significantly. The installation procedure is described as follows:

### **STEP 1: SUBSTRATE EVALUATION**

Ascertain the condition and suitability of the EPDM membrane. Ensure that the membrane, in the joint area, is free of debris, contaminants or any other materials that may interfere with RedLINE installation. Ensure that the RedLINE fleece is clean and completely dry.

### **STEP 2: ALIGNMENT**

Unroll the RedLINE material and position it over the expansion joint. The polyester fleece on the RedLINE material must be kept dry at all times. Dry fit the RedLINE to verify the correctness of the fit of all its supplied components using the drawings supplied with the RedLINE roll. Then, snap a straight line along the edge of the RedLINE using a chalk line marking out the limit of the M1 application on each side of the building expansion joint.

### **STEP 3: SUBSTRATE PREPARATION**

This step is very critical, especially for aged membranes. The preparation of the membrane surface will determine the strength of the adhesive bond.

#### **Preparation of EPDM membrane:**

- a) Remove any debris, contaminants or any other materials that may interfere with M1 adhesive adhesion. Using an EPDM membrane cleaner, wash the area within the chalk lines as well as 12" beyond on both sides, along the entire length of the joint.
- b) Using an EPDM primer applicator, prime the EPDM membrane within the chalk lines.
- c) The 12" wide area beyond the edge of the RedLINE will also have to be primed, but in order to avoid contaminating the primer with dust and debris, this step should be delayed until the top EPDM flashing is ready to be installed.

### **STEP 4: REDLINE ADHESION**

- a) Once EPDM Primer has flashed-off (observe manufacturer's recommended flash-off times), apply the M1 structural adhesive to the area within the chalk lines. Use a trowel to spread the M1 into an even bed.
- b) Lay RedLINE into the M1 adhesive, being careful to maintain the RedLINE alignment within

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the chalk lines.

- c) Apply pressure by hand and then using a metal roller to ensure a proper bond.

**STEP 5: FASTENING**

When installing RedLINE to an EPDM membrane, the RedLINE joint must be secured to the structure using a flat termination (batten) bar and pan or round head fasteners (do not use hex head fasteners). Following the recommended fastening rate on the project specific RedLINE joint layouts, fasten the termination bar through the top RedLINE fleeced flange, on both sides of the joint.

**STEP 6: FLASHING-IN REDLINE**

- a) Apply M1 structural adhesive to the top RedLINE fleece flanges and use a trowel to spread the M1 into an even bed. All of the white fleece and the termination bar must be covered with a generous amount of M1 adhesive.
- b) Using an EPDM primer applicator, prime the EPDM membrane beyond the edge of the RedLINE joint as well as the underside of the EPDM flashing. The width of the primed area beyond the joint should be equal to the width of the EPDM flashing that will cover the joint, less the width of the fleeced flange.
- c) Apply the primed EPDM flashing into the bed of M1 adhesive (primed side towards the M1 adhesive) and apply pressure by hand and then using a metal roller to ensure a proper bond.
- d) Fold back the balance of the EPDM flashing onto itself and follow the EPDM manufacturer's instruction for performing a taped seam.
- e) Once the EPDM flashing has been fully installed and seamed to the existing EPDM membrane, apply pressure over the entire EPDM flashing using a metal roller to ensure a proper bond.