

**HD-250 SYSTEM**

250mil HYBRID POLYMER CEMENT FLUID APPLIED WATERPROOFING



**Description:**

The Pli-Dek HD-250 Hybrid Waterproofing Underlayment System is designed for applications over plywood decks and provides superior performance with its unique dual waterproofing layers. The first layer is an innovative construction coat consisting of metal lath reinforced polymer modified cement. This high performance, 6,000 psi construction coat offers early waterproofing protection during the course of construction.

The second layer incorporates Pli-Dek's Fluid Applied waterproofing membranes (PMA, CR, or HR), which installs over the construction coat and can be applied at 60 - 215 mils. This system achieves a complete thickness of 250 mils or greater.

**Primary Use:**

HD-250 Hybrid Waterproofing Underlayment system is a high performance waterproofing assembly intended for plywood corridors, balconies, and roof decks that are designed to receive a concrete topping or pavers. This system provides a dual layer waterproofing assembly for under a concrete topping or mud set pavers or tile.

**Job Conditions:**

The ambient air and surface temperature must be a minimum of 4.44°C (40°F) and a maximum of 43°C (110°F) and shall remain so for at least 24 hours. Do not install over wet substrates or in rainy conditions.

The Pli-Dek installer shall inspect the substrate for any deficiencies and notify the architect or general contractor in writing of the corrections that need to be made before application of the Pli-Dek products.

**Packaging:**

The GU80-1 Gray Base Coat is available in 46 lb. bags. The GU80-1 Liquid Admixture is supplied in 5 gallon pails. Polymer Modified Asphalt (PMA) product is packaged in 5 gallon pails or 55 gallon drums. The Pli-Dek Cold Rubber (CR) product is packaged in 5 gallon pails or 55 gallon drums. The Pli-Dek Hot Rubber (HR) product is packaged in 43 lb. boxes. The flashing, metal lath, and staples are sold separately in various quantities.

**Technical Data:**

|  |                             |
|--|-----------------------------|
| <b>1<sup>st</sup> Layer (Construction Coat)</b>  |                             |
| <b>Bond Strength - Plywood</b><br>(ASTM C-297).....  | 126 psi                     |
| <b>Freeze Thaw</b><br>(ASTM C67-03).....   | Pass                        |
| <b>1-Hour</b><br>(ASTM E119).....  | Pass                        |
| <b>Spread of Flame</b><br>(ASTM E108).....   | Class "A"                   |
| <b>Tensile Strength</b><br>(ASTM D-2707).....  | 1505 psi - after weathering |
| <b>Impact Test</b><br>(ASTM D-3320).....   | No Cracking                 |
| <b>Water Transmission</b><br>(ASTM E 96).....  | .31g/24hrs.                 |
| <b>Compressive Strength</b><br>(ASTM C-150-72).....  | .6075 psi                   |
| <b>2<sup>nd</sup> Layer (Final Membrane)</b>   |                             |
| <b>Total Solids (ASTM C 836)</b>   |                             |
| PMA.....   | .62%                        |
| CR.....  | .98%                        |
| HR.....  | 100%                        |
| <b>Solvents (all products)</b> .....   | 0%                          |
| <b>Elongation</b>  |                             |
| PMA.....   | 500%                        |
| CR.....  | 575%                        |
| HR.....  | 1000%                       |
| <b>Hydrostatic Pressure (ASTM C 1306-95)</b>   |                             |
| PMA.....   | No Water                    |
| CR.....  | No Water                    |
| HR.....  | 100 psi                     |
| <b>Note:</b> For more technical data relating to each of the membranes, please see System Data Sheets. |                             |

**Limitations:**

HD-250 is not designed for foot traffic and is not UV resistant.

**Warranty:**

Contact Pli-Dek Systems, Inc. for warranty information.

**Technical Assistance:**

Pli-Dek Systems, Inc. or its local authorized representatives are available for on-site technical assistance and/or inspections for the Pli-Dek line of products.

