

**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**  
**Section: 07 30 05 – Roofing Felt and Underlayment**

**REPORT HOLDER:**  
**BEM Direct Supply LLC**  
Suite 104, 16650 Bass Lake Road  
Maple Grove, Minnesota 55311  
(781) 918-9175  
[www.bemdirect.com](http://www.bemdirect.com)

**REPORT SUBJECT:**  
MERCY 1100 HTU-BY Butyl Self-Adhesive Underlayment

### 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2024 and 2021 *International Building Code*® (IBC)
- 2024 and 2021 *International Residential Code*® (IRC)
- 2023 *Florida Building Code* (FBC) (see Section 8.1)

NOTE: This report references the most recent Code editions noted. Section numbers in earlier editions may differ.

**1.2** The underlayment has been evaluated for the following properties (see Table 1):

- Physical Properties
- Ice Barrier

**1.3** The underlayment has been evaluated for the following uses (see Table 1):

- In the field of the roof where self-adhering roof underlayments complying with ASTM D1970 are required as specified in Chapter 15 of the IBC, and Chapter 9 of the IRC.
- Use in areas of the roof required by IBC Section 1507 or IRC Section R905 to have ice barrier roof underlayment, when installed as noted in Section 4.2.
- Use is limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5.

### 2.0 STATEMENT OF COMPLIANCE

MERCY 1100 HTU-BY Butyl Self-Adhesive underlayment complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 5.0.

### 3.0 DESCRIPTION

MERCY 1100 HTU-BY is a high temperature, self-adhered waterproofing membrane made with an advanced butyl rubber adhesive formulation and designed for use in steep slope roofing applications 2:12 and greater. MERCY 1100 HTU-BY is composed of polyolefin composites fabric layer, butyl rubber adhesive layer and release film layer. The underlayment is grey in color on the exposed side. The nominal weight of the waterproofing membrane is 19.4 pounds per 100 square feet. The waterproofing membrane is available in rolls of 3 ft. wide by 67 ft. long.

### 4.0 INSTALLATION

**4.1 General:** MERCY 1100 HTU-BY Butyl Self-Adhesive underlayment must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

**4.2 Application:** The roof deck must be in proper condition to ensure adhesion. Installation is limited to solid-sheathed decks to plywood substrates. The membrane is self-adhered to the substrate after the release liner is removed. In ice barrier application, the membrane is applied from the lowest edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building. The membrane must be lapped a minimum of 3 inches on horizontal seams and 6 inches on vertical seams. Flashings around protrusions must be installed under the underlayment.



The roof covering may be installed immediately following the underlayment application, and the underlayment must be covered within the time designated in the report holder's published installation instructions.

## 5.0 CONDITIONS OF USE

**5.1** Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

**5.2** Installation is limited to use with approved mechanically attached roof covering systems.

**5.3** Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

**5.4** Installation is limited to roofs with a slope of 2:12 (17%) or greater.

**5.5** Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

**5.6** The underlayment is limited to buildings permitted to have non-classified roofing in accordance with the IBC Section 1505.5, unless the underlayment is specifically recognized as a component of a classified roofing assembly in a listing approved by the Code official.

**5.7** The MERCY 1100 HTU-BY Butyl Self-Adhesive underlayment is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

## 6.0 SUPPORTING EVIDENCE

**6.1** Reports of tests in accordance with ASTM D1970.

**6.2** Intertek Listing Report "BEM DIRECT SUPPLY LLC - MERCY 1100 HTU-BY Butyl Self-Adhesive Underlayment", on the [Intertek Directory of Building Products](#).

## 7.0 IDENTIFICATION

The MERCY 1100 HTU-BY Butyl Self-Adhesive Underlayment is identified with the manufacturer's name, address, the product name, the Intertek Mark as shown below, the Intertek Control Number and the Code Compliance Research Report number (CCRR-0601).



## 8.0 OTHER CODES

**8.1 Florida Building Code:** The MERCY 1100 HTU-BY Butyl Self-adhered Underlayment described in Sections 2.0 through 7.0 of this Research Report, complies with the *Florida Building Code – Building and Florida Building Code – Residential*, for the editions indicated in Section 1.1 of this report, subject to the following conditions:

- The MERCY 1100 HTU-BY Butyl Self-adhered Underlayment complies with the High-Velocity Hurricane Zones (HVHZ) provisions of the *Florida Building Code*.
- The underlayment must be installed in accordance with the provisions noted in Section 2.0 through 7.0 of this report, Sections 1507 and 1518 of the *Florida Building Code- Building*, and Section R905 of the *Florida Building Code-Residential*.
- The underlayment may be used where underlayments complying with ASTM D1970 are permitted in TAS 110, as referenced in Florida Building Code- Building Section 1515.1.4.
- The underlayment is limited to buildings permitted to have non-classified roofing in accordance with Section 1505.5 of the *Florida Building Code- Building*.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.





9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION <sup>1</sup>	2024 IRC SECTION <sup>1</sup>	2023 FBC - Building	2023 FBC – Residential
Physical Properties	1506 1507	R904 R905	1506 1507.1.1 1515.1.4 1518	R904 R905.1.1
Ice Barrier	1507	R905	N/A	N/A

<sup>1</sup>Section numbers pertain to the most recent edition cited in Section 1.1 of this Report

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545 E. Algonquin Road • Arlington Heights • Illinois • 60005  
[intertek.com/building](https://intertek.com/building)

