

# Technical Information Sheet



## APP 170 COOL

| Item Description  | Item Number |
|-------------------|-------------|
| 1 Roll (1 square) | W70PTT1700  |

### DESCRIPTION

APP 170 Cool is a heavier grade, smooth-surfaced APP modified bitumen roofing membrane designed to be installed with Elevate All-Purpose MB Cold Adhesive. It consists of select asphalt, modified with atactic polypropylene, and strengthened with a fiber glass reinforced polyester non-woven mat [190 g/m<sup>2</sup> (3.9 lb/100 ft<sup>2</sup>)] made with 100 % recycled PET fibers. The combination results in a flexible and durable material that exceeds the performance requirements of ASTM D 6222 Type I, Grade S. APP 170 Cool is a membrane that is strong and stable, and resistant to natural forces and other factors on the roof-top. It is ideal for both new construction and re-roofing applications as a base ply, cap sheet (with protective surfacing), or as a flashing sheet in single or multi-ply APP applications.

**NOTE:** Meets or exceeds performance requirements of ASTM D 6222, Type I, Grade S.

### PRODUCT PACKAGING

| Property     | Value                                    | Property          | Value                  |
|--------------|------------------------------------------|-------------------|------------------------|
| Roll Width   | 3 ft 3 in (1 m)                          | Pallet Size       | 48 x 39 in (1.2 x 1 m) |
| Roll Length  | 32 ft 10 in (10 m)                       | Rolls Per Pallet  | 20                     |
| Net Coverage | 98 ft <sup>2</sup> (9.1 m <sup>2</sup> ) | Weight per Pallet | 2,310 lb (1047.80 kg)  |
| Roll Weight  | 115.5 lb (52.39 kg)                      |                   |                        |

### METHOD OF APPLICATION

1. APP 170 Cool must be installed by fully adhered with Elevate Multi-Purpose Cold Adhesive.
2. Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the application of APP 170 Cool.

## ACCEPTABLE IMMEDIATE SUBSTRATES FOR COLD ADHESIVE APPLICATION

- Structural Concrete (must be clean, dry, properly cured, and primed with ASTM D-41 primer).
- Approved Elevate base sheet.
- Existing Smooth Surface BUR or APP Modified Bitumen (must be clean, smooth, and primed with ASTM D-41 primer).
- DensDeck® Prime, SECUROCK® Gypsum Fiber.
- ISO 95+™ GL Insulation, ISOGARD HD Composite or Cover Board, ISOGARD CG Insulation.

**NOTE:** Please reference the Elevate Asphalt Roofing Systems Guide for Applicators and Designers available on our website for detailed information regarding the type of deck and insulation in use.

## STORAGE

- All material should be stored out of the weather in a clean, dry area in its original unopened packaging at a minimum of 50 °F (10 °C) and a maximum of 100 °F (38 °C) so that it will be 50 °F (10 °C) or above at the time of application.
- Do not stack APP 170 Cool membrane more than two (2) pallets high.
- If the material must be stored temporarily on the roof before application, it must be elevated from the roof surface on a pallet, stored on end, and covered from the weather with a light-colored opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.

## PRECAUTIONS

- For safety information, refer to the Safety Data Sheet (SDS) for APP Membranes and Flashing.
- APP 170 Cool membrane if used as a cap sheet, is required to have protective surfacing, such as Elevate AcryliTop PC-100 (TIS 1601) Roof Coating.
- Take care when transporting and handling Elevate Modified Bitumen rolls to avoid punctures and other types of physical damage.
- Isolate waste products, petroleum products, grease, oil (mineral and vegetable) and animal fats from all Elevate Modified Bitumen membranes.
- Refer to Safety Data Sheets (SDS) for additional safety information.

## LEED® INFORMATION

Post-Consumer Recycled Content: 7 %  
Post Industrial Recycled Content: 0 %  
Manufacturing Location: Beech Grove, IN

**NOTE:** LEED® is a registered trademark of the U.S. Green Building Council



| TYPICAL PROPERTIES                                    |                |                                                     |                                                      |
|-------------------------------------------------------|----------------|-----------------------------------------------------|------------------------------------------------------|
| Properties                                            | Test Method    | Performance Minimum                                 | Typical Performance                                  |
| Product Thickness                                     | D 5147         | 140 mil (3.5 mm)                                    | 175 mil (4.5 mm)                                     |
| Net Mass                                              | D 146          | 70 lb/100 ft <sup>2</sup> (3,418 g/m <sup>2</sup> ) | 103 lb/100 ft <sup>2</sup> (5,029 g/m <sup>2</sup> ) |
| Bottom Side Coating                                   | D 5147         | 30 mil (0.76 mm)                                    | 47 mil (1.20 mm)                                     |
| Peak Load at 73 °F (23 °C)                            | D 5147         | 50 lbf/in, MD (8.8 kN/m, MD)                        | 55 lbf/in, MD (9.6 kN/m, MD)                         |
|                                                       |                | 50 lbf/in, XMD (8.8 kN/m, XMD)                      | 55 lbf/in, XMD (9.6 kN/m, XMD)                       |
| Elongation at Peak Load at 73 °F (23 °C)              | D 5147         | 23 %, MD                                            | 30 %, MD                                             |
|                                                       |                | 23 %, XMD                                           | 30 %, XMD                                            |
| Peak Load at 0 °F (-18 °C)                            | D 5147         | 60 lbf/in, MD (10.5 kN/m, MD)                       | 65 lbf/in, MD (11.4 kN/m, MD)                        |
|                                                       |                | 60 lbf/in, XMD (10.5 kN/m, XMD)                     | 65 lbf/in, XMD (11.4 kN/m, XMD)                      |
| Elongation at Peak Load at 0 °F (18 °C)               | D 5147         | 10 %, MD                                            | 15 %, MD                                             |
|                                                       |                | 10 %, XMD                                           | 15 %, XMD                                            |
| Ultimate Elongation at 5 % of Peak Load 73 °F (23 °C) | D 5147         | 30 %, MD                                            | 40 %, MD                                             |
|                                                       |                | 30 %, XMD                                           | 40 %, XMD                                            |
| Tear Strength at 73 °F (23 °C)                        | D 5147, D 4073 | 70 lbf, MD (311 N, MD)                              | 75 lbf, MD (334 N, MD)                               |
|                                                       |                | 70 lbf, XMD (311 N, XMD)                            | 75 lbf, XMD (334 N, XMD)                             |
| Low Temperature Flexibility                           | D 5147         | 32 °F (0 °C)                                        | 32 °F (0 °C)                                         |
| Dimensional Stability                                 | D 5147, D 1204 | 1 % Change, MD                                      | 0.2 % Change, MD                                     |
|                                                       |                | 1 % Change, XMD                                     | 0.2 % Change, XMD                                    |
| Compound Stability                                    | D 5147         | 230 °F (110 °C)                                     | 270 °F (132 °C)                                      |
| Water Absorption                                      | D 5147, D 95   | 3.2 %                                               | 0 %                                                  |
| Moisture Content                                      | D 5147, D 95   | 1 %                                                 | 0 %                                                  |
| Low Temperature Unrolling                             | D 5636         | 41 °F (5 °C)                                        | 0 °F (-18 °C)                                        |

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