



TECHNICAL LETTER—COLD TEMPERATURE APPLICATIONS

Protecto Wrap Self-Adhered Membranes

The long-term adhesion of self-adhered membranes will be unaffected by lower temperatures provided the initial adhesion of the membrane to the substrate is adequate.

The following guidelines provide general information regarding cold weather applications. Cold weather adhesion is dependent upon several factors: ambient temperature; substrate temperature; substrate condition; storage conditions and membrane temperature at time of installation.

The information below provides useful guidelines to promote initial adhesion to the substrate at colder temperatures.

- Substrates should be sound, dry and free from ice, frost, dust, debris or protrusions.
- Keep material warm— products should be stored in original containers in a warm dry area between 50°F to 90°F (10°C to 32°C). Product should be kept warm a minimum of 24 hours prior to and just up to installation.
- Roll the entire membrane firmly with a hand roller from the center of the membrane to the edges to reduce entrapment of air bubbles and creases and to help promote full contact and adhesion.
- Metal surfaces may need to be cleaned and/or abraded to achieve optimum adhesion.

When installing these products in cold or marginal weather conditions, the use of primers may be needed to ensure adequate adhesion. Protecto Wrap Company recommends on-site adhesion testing to determine the need for primers.

Reference **TECHNICAL LETTER – PRIMERS** for more information on recommended primers.

Depending on the Protecto Wrap Product used, some substrates may require primer regardless of temperature; these include masonry, concrete, black fiber sheathing board, OSB, exterior grade gypsum products and DensGlass Gold®.

The following guideline provides a general temperature range for applying Protecto Wrap self-adhered membranes without a primer (providing the guideline above has been followed)

1. **Protecto Wrap Rubberized Asphalt Adhesive** based products can be applied between 40°F and 120°F (7.2°C to 48.8°C)
2. **Protecto Wrap Butyl Adhesive** based products can be applied between 32°F and 120°F (0°C to 48.8°C)
3. **Protecto Wrap Block Copolymer Adhesive** based products can be applied between 0°F and 120°F (17.7°C to 48.8°C)
4. **Protecto Wrap Water Based** products can be applied at 40°F (4.4°C) and rising and should be kept from freezing at all times.

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The following guideline provides a general low temperature point for applying Protecto Wrap self-adhered membranes when ambient and /or surface temperatures fall below the general temperature range listed above. In colder temperatures, primer must be used to achieve adequate adhesion and the Cold Weather Guidelines above must be followed. Protecto Wrap self-adhered membranes have been tested for adhesion at the following temperatures using our Universal Water Based Primer, 100/VOC Primer and BT Primer.

1. **Protecto Wrap Polymer Modified Asphalt Adhesive** based products can be applied at 40°F (5°C) and rising
2. **Protecto Wrap Butyl Adhesive** based products can be applied at 32°F (0°C) and rising
3. **Protecto Wrap Synthetic Butyl/Block Copolymer Adhesive** based products can be applied between 0°F and rising (-17.8°C)

In extreme cold temperature applications, please contact a Protecto Wrap Company representative for additional tips to achieve the best performance for your application.

When installing Protecto Wrap Polymer Modified Asphalt Adhesive or Protecto Wrap Butyl Adhesive products in cold or marginal weather conditions, the use of primers will be required to ensure adequate adhesion. Protecto Wrap Company recommends on-site adhesion testing to determine the need for primers.

Reference **TECHNICAL LETTER - PRIMERS** for more information on recommended primers.

Some substrates may require primer regardless of temperature; these include masonry, concrete, black sheathing board, OSB, exterior grade gypsum boards, asphaltic felt or tar paper and DensGlass Gold®.

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