



02 December 2010

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Subject: Cold Weather Applications – Firestone Single Ply Membranes

TO WHOM IT MAY CONCERN,

Firestone has always been committed to the manufacture of roofing materials that are engineered for long-term performance and service. Although Firestone Roofing Systems may be installed in colder temperatures (temperatures lower than 40 °F or 4.4 °C), Firestone recommends some basic precautions be taken to ensure ease of installation and satisfactory performance of the completed roofing system.

All traces of snow, ice, or any moisture must be removed from the deck prior to installation of the roofing system. Any moisture present at the time of installation may result in poor adhesion of the membrane to the roof deck or other components and a compromised installation. If installing EPDM, narrow panels are recommended, reducing the amount of factory folds. Firestone produces EPDM 16' 8" no-fold and 30' one-fold panels. The requirements for relaxation may vary, but will be a minimum 30 minutes.

For Fully Adhered roofing systems installed in cold weather, fold lines remaining in the membrane during installation will make smooth bonding to the substrate difficult; therefore, Firestone recommends that Fully Adhered systems installed during cold weather utilize 10'-0" wide or 16' 8" wide no-fold panels.

All adhesives, tapes, and sealants, should be stored in their original and unopened containers at room temperatures. These materials should be used within four hours of transport to the roof or returned to a temperature between 60°F-80°F (15.6°C and 26.7°C) prior to use. If the workability of the material deteriorates, the material should be returned to the heated area until the temperature of the material rises to between 60 and 80..... (usually 24 hours). Adhesives should be stirred thoroughly before and during application. Because adhesive drying time may be greatly extended, the roofing crew should anticipate a slower than normal production rate. Changes in the application characteristics can occur while applying the products, such as adhesive thickening, etc. Do not use heat guns or open flames to accelerate drying times.

Certain combinations of temperature and humidity may cause water condensation to form on areas of drying adhesive. If this condition occurs, work must stop until the ambient air conditions no longer cause condensation. Because so many variables can influence this condition, the actual appearance of condensation is somewhat unpredictable. Accordingly, this situation must be monitored continuously as work progresses.

Note: DO NOT attempt to use Water Based Bonding Adhesive or AcryliTop PC-100 when there is the possibility of freezing temperatures within 48 hours after application. Ambient temperatures must be 40°F and rising. DO NOT apply the AcryliTop PC-100 when ambient air temperatures will be below 45°F within a 24-hour period after application. In addition, DO NOT apply AcryliTop PC-100 when inclement weather is expected within 24 hours.

All of the above conditions can only be monitored from the job site and this information is given as guidance in an effort to assist the installer in determining the applicability of roofing materials during the winter months. As always, no roofing work should be performed during any form of precipitation (e.g., rain or snowfall).

Please refer to the current Firestone Technical Specifications Manuals and Technical Information Sheets (T.I.S.) for additional cold weather application and storage information. Information regarding cold weather applications can also be obtained from the National Roofing Contractors Association (NRCA), The Roofing Industry Educational Institute (RIEI), and other professional and trade

Please feel free to contact me with any questions, and thank you for choosing Firestone.

Sincerely Yours,

FIRESTONE BUILDING PRODUCTS COMPANY, LLC



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