



April 12th, 2019

Dear SPF Contractor:

Carlisle Spray Foam Insulation is providing additional safety and use guidance regarding the handling and installation of our spray polyurethane foam (SPF) insulation products.

- Carlisle Spray Foam Insulation recommends that all non-SPF trade workers and other occupants vacate the building during SPF installation.
- In SPF installations for large structures, all non-SPF workers and other occupants should vacate the building and/or the SPF installer should establish enclosures to isolate the work area. For help in setting up an enclosure around an SPF installation, please refer to the Center for the Polyurethanes Industry (CPI) Spray Foam Coalition document titled "Guidance on Ventilation During Installation of Interior Applications of High-Pressure Spray Polyurethane Foam."
- The work area should be properly ventilated during SPF application.
- Ventilation should continue for 24 hours after interior application of SPF product prior to residential homeowner reoccupancy for both new and retrofit installations. A minimum outdoor air exchange rate of 1 air change per hour (ACH) is recommended during this period.
- Workers handling or applying SPF products should wear appropriate Personal Protective Equipment to protect the skin, eyes, and respiratory system.

Additional testing and evaluations with third-party industrial hygienists indicates the following reentry and reoccupancy times for our SPF insulation products may be possible. This is based on testing conducted over multiple days in differing conditions and locations representing real world scenarios and replicated equipment and mechanical failures. The following reentry and reoccupancy times may be permissible:

Reentry and Reoccupancy Times

Ventilation Rate (Air Changes per Hour)	Reentry for other trades	Reentry for other workers or for general employees	Residential homeowner reoccupancy
1 ACH	12 Hours	12 Hours	24 Hours
20 ACH	1 Hour	4 Hours	24 Hours

These reoccupancy times reflect the points in time at which the levels of airborne chemical substances associated with the SPF insulation are expected to be less than the relevant health-based occupational and non-occupational exposure limits as determined through testing.



Our testing yielded results significantly under/below the OSHA PEL (Personal Exposure Limits) for several common chemicals found within SPF and, as such, it may be safe to reenter or reoccupy using the times and ventilation rates above. **These rates do NOT account for individuals who may be sensitive to chemicals and/or chemical odors. Those with sensitivities should not enter the sprayed area(s) for at least 24 hours post installation, and only after using the maximum ventilation rates and times as outlined above.**

Please note that the reentry and reoccupancy times are based on the following assumptions: 1) that the SPF insulation was applied in accordance with the above recommendations; and 2) following the ventilation period, the structure maintains a minimum outdoor air exchange rate that meets or exceeds the accepted industry standard (ASHRAE 62.1, 62.2, or other applicable standards) through natural infiltration or mechanical means.

Please contact your Carlisle Spray Foam Insulation representative for more information.

A handwritten signature in black ink, appearing to read "Jon R. Purcell", enclosed within a thin black rectangular border.

Jon Purcell
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