Purpose of Test: Report adhesion of 3M™ Self-Adhered Air and Vapor Barrier Membrane 3015 to various roofing membranes.

Results: 3M Self-Adhered Air and Vapor Barrier Membrane 3015 was applied to samples of roofing membrane in accordance with procedures outlined in ASTM D 3330, Method A. The backing of 3M Self Adhered Air and Vapor Barrier Membrane 3015 was reinforced with Scotch® Filament Tape to eliminate stretch from the high-elongation backing of the membrane. In doing so we are able to measure more directly the peel adhesion instead of diluting the peel force through the extension of the backing, as is referenced in ASTM D3330 Section 1.4.

Samples were applied to the membranes and allowed to dwell at room temperature for one day. Then samples were aged at 49°C (120°F) for one month to estimate how the adhesion could change over time. No primer was used for these tests.

Samples of typical EPDM, TPO and PVC roofing membranes were collected for this evaluation. Samples of TPO from two different manufacturers were obtained.
Conclusions: 3M Self-Adhered Air and Vapor Barrier Membrane 3015 has good initial adhesion to each of the membranes. After heat aging the adhesive bond improved on the EPDM membrane, and was not significantly affected on the TPO membranes. Additional testing is recommended on EPDM or TPO membranes for specific projects.

When the samples of 3M Self-Adhered Air and Vapor Barrier Membrane 3015 bonded to PVC were removed from the oven, it was noted that the adhesive of the air barrier was soft and the bond to the PVC membrane was significantly weakened; the adhesive was softer and tended to transfer to the PVC membrane. This effect has been observed previously when pressure sensitive adhesives are bonded to flexible PVC due to plasticizer migration. Based on these results, we cannot recommend the use of 3M 3015 with PVC roofing membranes.

For additional information, please contact 1-800-362-3550.
Technical Information

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