

DynaSet 1K is a one-component, moisture-curing, solvent-free cold adhesive approved for use with Johns Manville SBS membranes. DynaSet 1K may be installed in a full-coverage application technique utilizing a notched ¼" squeegee, as well as in a ribbon pattern for certain applications as outlined below.

Installation Conditions and Jobsite Storage

DynaSet 1K is packaged in a 5-gallon pail under a nitrogen blanket to minimize premature curing from ambient moisture in the air. Pails will ship upside down, and if extended storage is expected, it is recommended to leave pails in this state to maximize shelf life.

Install when temperature is 40°F (4°C) and rising. Maximum installation temperature is 100°F (38°C). Material must be stored between 60° – 80°F (16° – 27°C) prior to use to ensure proper viscosity and flow of the product.

Ensure substrate is free of dirt, defects, and debris. Pull tests may be completed to verify compatibility with substrate. The DynaSet 1K ribbon application is compatible with structural concrete and approved lightweight concrete.

Full-Coverage Application Instructions

Prior to beginning full-coverage application with polyester-reinforced sheets, unroll and allow SBS membranes to relax. Rolls may be cut to lengths needed to accommodate working conditions. Membranes should be installed perpendicular to the slope of the roof, and application should begin at the low point of the roof to ensure proper water shedding. After relaxation, polyester membranes may be re-rolled prior to adhesive installation.

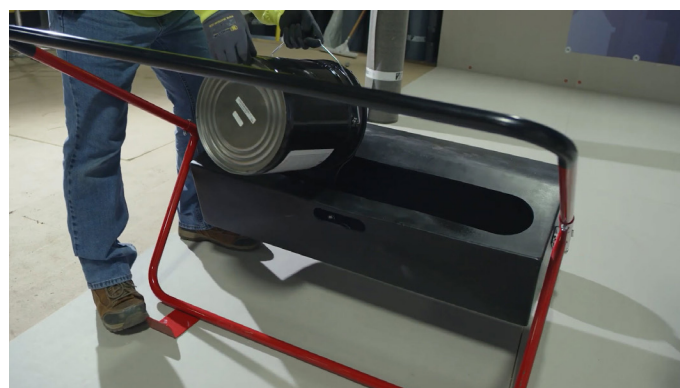
Apply adhesive to substrate and spread with a ¼" serrated squeegee or trowel. Coverage rate is 1.5 – 2 gallons per SQ in full-coverage applications. Monitor squeegee teeth during install and replace if teeth begin to wear down.

Immediately roll membrane into adhesive to ensure no skin develops on the adhesive surface. Use a weighted roller to ensure full adhesive contact across the width of the membrane. Side and end laps can be heat-welded. Alternatively, DynaSet 1K or another approved cold adhesive/mastic can be used to seal laps. If using a cold adhesive, ensure a constant bleed-out is present along the lap.

Ribbon Application Instructions

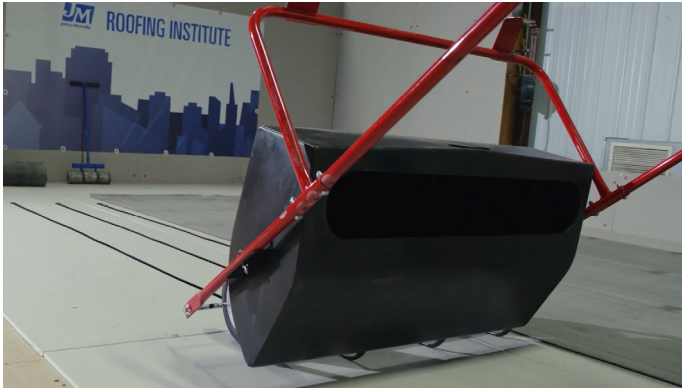
Prior to beginning ribbon application, unroll and allow approved polyester-reinforced SBS membranes to relax. Rolls may be cut to lengths needed to accommodate working conditions. Membranes should be installed perpendicular to the slope of the roof, and application should begin at the low point of the roof to ensure proper water shedding. After relaxation, membranes may be re-rolled prior to adhesive installation.

DynaSet 1K can be installed using commercially available gravity spreader carts. Per system requirements, drill ¾" holes in the bottom of the application tank at the proper bead spacing intervals (12" o.c., etc.). Ensure bead spacing accounts for any selvage edge overlap with previously applied rolls. With the cart tilted back, load DynaSet 1K. Position the cart where application will begin prior to loading of adhesive. Adhesive cure will begin with exposure to ambient environments, so only load the amount of material that can be installed in a 30- to 45-minute window. Cover all unused material left in pails to maximize pot life. Maximum capacity to be loaded at one time is 4 pails, 20 gallons. Coverage rates are outlined in the table below.



Bead Spacing	Coverage Rate - Ribbon Application
12" o.c.	1 gal/SQ
6" o.c.	2 gal/SQ

Flip cart so adhesive utilizes gravity to flow through pre-drilled bead holes in the application tank. Slowly walk backwards, maintaining bead size of $\frac{1}{2}$ " – $\frac{3}{4}$ " throughout application. Bead size will be dependent on pace of walking, and always be aware of your surroundings while moving backwards. A 4" – 6" break of adhesive is needed every SQ (10 linear meters) of material to allow cross-venting between ribbon channels. Adhesive breaks should be offset from breaks under subsequent membranes. Proper venting should be utilized when installing over a substrate with moisture. Venting may be achieved by using partially adhered or fastened wall flashing details when flashed properly into the venting base sheet or by using active one-way vents in the field of the roof. Please consult with your design professional to determine the best methods for your specific project conditions.



Immediately roll SBS membrane into ribbon-applied adhesive. Do not allow the adhesive to skin over. In conditions with high humidity, the adhesive will develop a skin in 30 to 45 minutes. If a skin develops, the adhesive will have to be removed and reapplied. When the adhesive in the tank begins to skin over, the application tank will need to be replaced. Ensure multiple application tanks are on site. Membranes should be rolled across the full width of the sheet with a weighted roller to ensure proper adhesive contact and bead spread for adhesion.



Side and end laps should be heat-welded, adhered with DynaSet 1K or another approved cold adhesive/mastic. If using an automatic heat-welder, ensure a wide-tip attachment designed for SBS membranes is used. Conduct test welds to confirm speed and heat settings based on ambient conditions. If using adhesive for laps, ensure a constant bleed-out is present.