

INSTALLATION INSTRUCTIONS

COLPLY® EF RIBBON INSTALLATION INSTRUCTIONS

COLPLY EF RIBBON

In recent years, the roofing industry has seen more and more concrete decks being used in roofing. With options providing reduced weight, similar strength to normal structural concrete, and insulation value, it is a very attractive option. When looking at its effects on the roofing material and the building process however, concrete decks raises some concerns. The curing time of concrete must be sufficient in order to allow for moisture to be released by the concrete, in some cases up to 6 months. The NRCA recommends an adhered vapor retarder in order to prevent moisture issues in the roof system. With ribbon application of COLPLY EF, the vapor retarder can be applied very shortly after the concrete is poured without any issues of adverse effects due to moisture.

The COLPLY EF Ribbon Application system utilizes the moisture curing, elastomeric adhesive to partially adhere base plies over:

- approved lightweight insulating concrete
- gypsum
- concrete
- other approved substrates

The purpose of this application is to allow the un-adhered portions between the adhesive to vent and dissipate vapor pressure from moisture in the substrate.

SUBSTRATE PREPARATION

Monitor precipitation, temperature, humidity, wind, cloud cover and sun that may have an effect on materials and roofing application. Conditions should remain dry, and the ambient temperature should be well above the dew point at all times during roofing application.

The ambient temperature should be at least 40°F (4.4°C), and rising to ensure conditions remain acceptable to apply adhesive ribbons and membrane plies. The adhesive and membrane temperature should be 70°F (21°C) or more at the point of application. During cold weather, drums, 5 gallon pails and cartridges should be stored in heated areas.

Ensure all substrates are clean, dry and prepared to receive the specified adhesive and membrane ply. Adhesion/peel tests are encouraged for concrete, gypsum, lightweight insulating

concrete and for other substrates where surface conditions may vary.

APPLICATION

Prior to the application of any adhesive, the SBS rolls should be unrolled on the roof and allowed to relax. Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope. Cut the rolls to working lengths and lay out to always work to a selvage edge.

Once the rolls have relaxed, they should be loosely re-rolled and set into place in order to be rolled into the COLPLY EF once it is applied, ensuring specified side and end laps are maintained.

VIA SPREADER CART:



When using the spreader cart to apply COLPLY EF in ribbons, 3/4" to 7/8" inch holes should be predrilled for the required spacing (12" o.c., 6" o.c., etc.). With the cart laying down, up to four pails of COLPLY EF can be loaded into the tank at one time (20 gals). With an application rate of 1 gallon per square, 1 full tank will cover between 15 and 20 squares.



To apply, simply turn the cart over and begin walking in the direction the membrane will roll out. Be sure to maintain the proper bead size of 1/2" to 3/4" while applying. Every 33 to 45 feet, a six inch horizontal break must be provided to allow for cross venting between channels.

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Prior to application of the adhesive, cut 6" scrap membrane pieces. These can be placed on the deck and removed once the adhesive has been applied, creating a gap with no adhesive.



After 30 to 45 minutes of application (may be less based on heat and humidity), any adhesive left in the tank will begin to skin over. Once this happens, this tank cannot be refilled and must be swapped out for a new tank. Multiple tanks should be kept on site at all times.

VIA CARTRIDGE / BATTERY APPLICATOR:

Remove from the box and remove the twist off cap on the spout of the cartridge. Beneath this cap there is also a plug that must be removed. Once this is done, the application tip can be screwed on. Ensure that when screwing the application tip onto the cartridge that there is no static mixer in the tip.



The cartridges are then ready to be inserted into the battery applicator and applied. Be sure to maintain the proper bead size of $\frac{1}{2}$ " to $\frac{3}{4}$ " while applying. Every 33 to 45 feet, a six inch horizontal break must be provided to allow for cross venting between channels. Prior to application of the adhesive, cut 6" scrap membrane pieces. These can be placed on the deck and removed once the adhesive has been applied, creating a gap with no adhesive.



Once the adhesive is applied in ribbons, the membrane must be immediately applied. After rolling out the membrane into the adhesive, a weighted roller should be used over the entire surface of the membrane. The weighted roller is critical to ensuring proper bead width of 2 $\frac{1}{2}$ " to 3" beneath the membrane.



Side laps and end laps may be addressed by using beads of COLPLY EF dispensed from cartridges or may be heat welded. If using COLPLY EF in the laps, ensure enough adhesive is applied for a $\frac{1}{8}$ " to $\frac{1}{4}$ " bleed out from the lap.

For lightweight insulating concrete, install one-way spun aluminum roof vents evenly spaced to cover 1,000 sq. ft. per vent when specified. Some specifications may call for the perimeter details to be partially adhered to allow for vapor pressure to vent. Partially adhered flashings are limited to vertical application such as walls and curbs. Flashing at drains and horizontal details should be fully adhered with COLPLY EF or heat welding.

STORAGE & HANDLING

Store pail and boxes on end and maintain in an upright position to prevent damage. Store in a clean dry location and cover as necessary to protect from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of COLPLY EF Adhesive.

Special care should be taken when using COLPLY EF in ribbon application to ensure that the material temperature at the time of application is 70°F (21°C) or more. Lower temperatures will cause the adhesive flow characteristics to change and reduce the efficiency of this application.