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# TECHNICAL BULLETIN

## LB-08-06A-R2

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This bulletin states Tarco's position regarding application guidelines of self-adhesive roofing membranes. This technical bulletin is effective December 08, 2010.

### DOs and DONTs

#### DOs

DO store rolls in a dry location, protected from the elements, preferably at room temperature.

DO install only when material interface temperatures are 40 °F and rising. Since peel & stick membranes are activated through *heat and pressure*, it may take some time for a permanent bond to be attained. Full adhesion is achieved after the material goes through heat cycles.

DO apply to smooth, clean, dry, void-free surfaces. Wood decking requires a minimum of 24 hours to dry.

DO ensure proper ventilation of the roof structure, including both ridge and soffit venting.

DO cut material to suitable, manageable lengths before application.

DO install first course of material parallel to the eave edge.

DO apply the material, working from the center of the material continuously to the ends of the sheet [*half of the length of the sheet is the center*]; taking care to avoid wrinkles and ridges. If one course of material becomes misaligned, do not continue to apply courses as this will lead to wrinkles and fishmouths. If any course gets misaligned, start over again.

DO remove release film following a proven technique or as per the two release film removal methods described below. Release film should be pulled back in a continuous fashion.

DO remove release film (if present) covering the head /side lap, prior to adhering the next roll.

DO ensure that the bottom adhesive side of the membrane does not get stuck to itself. In case this occurs, separate the two layers immediately. After some time, it may become impossible to do so without damaging the material.

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- DO roll or broom the *entire* membrane surface, paying special attention to all overlap areas (side laps, end laps, T-Joints) to ensure adhesion with acceptable substrates. Roller weight shall be 70 lb. minimum for low slope ( $\leq 2:12$  pitch) and 28 lb. minimum for steep slope ( $> 2:12$  pitch). The use of soft bristled push broom may be used on steeper slopes.
- DO prime all metal flashings, leads, eave and rake metal drip edges and vertical approved substrates with ASTM D41 asphalt primer, water based acrylic primer or water based polymer modified primer.
- Do attach all mechanically fastened base sheets with nails which penetrate into the acceptable substrate a minimum of a  $\frac{3}{4}$ " distance applied with a minimum of a 1" disk; or using 11 gauge nails and a minimum of a 1" disk.
- Do perform a 45-degree angle cut on all buried laps for low slopes ( $\leq 2:12$  pitch). The 45-degree angle cut is to be followed by the application of SBS trowel grade modified asphalt adhesive/flashing cement at a rate of  $\frac{1}{8}$ " throughout the contact area. Once the aforementioned procedure has been completed, the membrane must then be hand rolled in place in order to ensure contact of membrane and achieve a minimum of  $\frac{1}{8}$ " asphaltic bleed out in the designated areas. It is acceptable to hot air weld in lieu of using an SBS trowel grade modified asphalt adhesive/ flashing cement. Membrane is to be hand rolled in place during the hot air welding process in order to ensure contact of the membrane and achieve a minimum of  $\frac{1}{8}$ " asphalt bleed out in the designated area.
- Do allow for all end laps to be a minimum of 6" .
- Do allow for head /side laps to be a minimum of 3" .
- Do stagger all end laps a minimum of 36" from the preceding course on low slopes ( $\leq 2:12$  pitch) and a minimum of 18" from the preceding course on steep slopes ( $> 2:12$  pitch).
- DO back nail the membrane on steep slopes ( $> 2:12$  pitch) or as per applicable building code.
- Do apply SBS trowel grade modified asphalt adhesive/flashing cement in between all granule over granule and fabric over fabric laps. The SBS trowel grade modified asphalt adhesive/flashing cement is to be applied at a rate of  $\frac{1}{8}$ <sup>th</sup>" thick throughout the minimum 6" end lap contact area. Once the aforementioned procedure has been completed, the membrane must then be hand rolled in place in order to ensure contact of membrane and achieve a minimum of  $\frac{1}{8}$ <sup>th</sup>" asphaltic bleed out in designated area.
- Do follow published tile stacking guidelines for PS200HT and Fast90 underlayments.

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## DON'Ts

DON'T leave unused material unprotected.

DON'T install when any form of moisture or debris (water, ice, snow, rain, dew, dirt, saw dust, etc.) is present. All contaminants will affect the adhesive characteristics of the membrane.

DON'T remove the release film abruptly as this could lead to tearing of the film.

DON'T forget to roll the membrane overlap areas (side laps, end laps, T-Joints) and the entire sheet.

DON'T attempt to remove the adhered material *immediately* after application to the substrate.

DON'T overload rooftop materials such as shingles, tiles, etc. on a small area of the membrane surface. 'Overloading' promotes slippage of membrane and materials.