TUFF*Stik*® SA BASE

SELF ADHESIVE SBS MODIFIED BASE

PRODUCT DATA SHEET

DESCRIPTION: TUFF*STIK*® SA BASE is a tough, film surfaced self-adhesive SBS modified bitumen base sheet that is designed as a base or ply sheet in self-adhesive roofing systems. Contains fiberglass reinforcement strategically placed within the compound and is surfaced with a permanent film on the top side to enhance mating with the TUFF*Stik*® SA Cap. The underside has a removeable split back release film. Not intended for use with hot asphalt, cold adhesive or torch applications. Contact the U.S. Ply Technical Services for specific details.

PRODUCT NAME: TUFF*Stik*® SA BASE

APPROVALS: Meets ASTM D1970 and performance criteria of ASTM D4601 Type I/II. Contact U.S. Ply, Inc. for specific/applicable codes.

PRODUCT DATA: TUFF*Stik*® SA BASE (typical)
Thickness: 1.5 mm (60 mils)
Weight: 85 lbs/roll (40 kg/m²)
Roll Dimensions: 39-3/8" x 64' 6" (1m x 20m). Each roll is approximately 211.5 sq. ft. unapplied. Yields approximately 2 squares applied.
Top Surface: Permanent Film with 2" and 3" ink lap lines
Bottom Surface: Removeable split back release film
Packaging: 20 carton boxes per pallet, 1 roll per carton

USES: For use as the base layer under TUFF*Stik*® SA Cap in *residential* low-slope roofing applications.

STORAGE: Store TUFF*Stik*® products in original cartons indoors on pallets, protected from the elements above 70°F (21.1°C) for a minimum of 24 hours, prior to application. **DO NOT STORE** TUFF*Stik*® or other SA rolls in direct sunlight or on the rooftop during extremely high temperatures (over 110°F [43.3°C]) or when temperatures will fall below 50°F (10°C). If it is necessary to store materials on the rooftop, no more material should be stored on the roof than can be used within a few days. **For best results**, store all materials in a shaded area at the job site. Protect from extreme heat and weather by covering with a light colored breathable opaque tarp to allow venting and protection from weather and moisture. When no shaded areas exist for storage, it is recommended to place a layer of 1" thick polyisocyanurate insulation over the top of the rolls under the tarpaulins to reduce the heat on the rolls and in order to reduce the possibility of rolls sticking or experiencing difficulty in removing the poly release film backing. Keep in cartons until ready for use. Cover and protect materials at the end of each day work. Do not remove any protective tarpaulins until immediately before material will be installed.

PREPARATION: Substrates must be clean, dry and free of moisture, ice, snow, dust or other bonding inhibitors that affect proper adhesion. Substrate temperature needs to be a minimum of 50°F and rising. Substrates should be inspected and accepted by the contractor as suitable to receive and hold roof membrane materials. Do not attempt installation on roofs that do not attain positive drainage. Ponding or standing water conditions are expressly excluded from any warranty coverage. Primer, when required, must be applied at the specified rate and must be allowed adequate time to dry.

TEMPERATURE – CAUTION: Ambient temperature must be 50°F (10.6°C) or above with a minimum of 2 hours of exposure to direct sunlight. Conditions without exposure to direct sunlight may not allow sufficient thermal heating and may affect adhesion. Note: If SA products are applied in temperatures above 110°F (43.3°C), it may result in rolls sticking or experiencing difficulty in removing the poly release film backing. If this situation should occur, move the product into a shaded area until the product has cooled sufficiently. Once cooled, the poly release film backing can be easily removed.

INSTALLATION: Refer to the TUFF*Stik*® Installation guidelines for complete application information. TUFF*Stik*® SA Base may be applied to properly installed TUFF*Stik*® Nail Base and approved insulations. No other substrates are suitable for direct membrane application. Do not attempt to install TUFF*Stik*® membrane in conditions that do not meet the minimum criteria for accomplishing suitable self-adhesive reaction. Roll out TUFF*Stik*® and allow the membrane to relax prior to application. Cut rolls into manageable lengths for best results. Start with a half roll width to offset the side laps of subsequent membrane sheets. The selvage edge should be at the higher side of the roof. Roll the sheet out and set to align. Where drains are present, start with a full width roll centered at the drains for maximum offset between base and cap. Fold the membrane back halfway lengthwise to remove the half of the poly release film on the underside from the up-slope side of the roll and set in place, then flip back the other half of the roll and remove the down slope side of the second half of the release film on the underside of the roll in a smooth continuous process. Note: When removing the poly release film from the underside of the roll, you should intend to simultaneously bond the side lap together to the adjacent in-place sheet.

On larger runs, the membrane can be set in position and the release film removed from underneath the membrane. (This method requires one person at one end while the other person pulls in opposite direction to remove the film and to prevent shifting). Firmly adhere the membrane by direct contact pressure to the underlying membrane. Apply pressure from the center of the sheet outwards towards the membrane sides and ends. Use a weighted field roller to ensure maximum contact of the membrane with the underlying membrane working out all air pockets, voids and un-adhered areas that will prevent bonding of membrane to the underlying substrate. Continue installing the membrane up slope lapping the side laps a minimum of 2" (5.2 cm) and 6" (15.2 cm) on the end laps.

Note: *Warm weather conditions and exposure to direct sunlight are essential for proper adhesion. The self-adhesive compound will not activate if installed below the recommended temperatures and/or if the material temperature is below 70°F.*

Stagger all end laps a minimum of 18" (45.7 cm) from one another. Check all joints and laps for full adhesion before the end of each day. If the membrane can be lifted in any area, it is not properly adhered. A seam probing tool can be helpful to check for small voids at laps.

At end laps, cut the selvage edges of the upper and lower sheet at opposing diagonal corners at 45° degree angles to prevent a capillary void and apply a bead of USP® 954 SBS Flashing Cement to the angle cut. Trimmed corners should be completely covered by application of succeeding roll course. Apply a bead of USP® 954 SBS Flashing Cement within the end lap area in a serpentine pattern and spread the adhesive with a trowel before setting the end lap in place. If necessary, a hot air welding device designed for sealing modified bitumen seams and a seaming roller may be used to seal the side and end laps areas and enhance adhesion prior to the application of the USP® 954 SBS Flashing Cement at end laps. After completion of job discard product box.

Do not leave the TUFF*Stik*® SA Base membrane exposed to the weather, cover with TUFF*Stik*® SA Cap the same day.

IMPORTANT/CAUTION: Roofing is a hazardous construction. Workers should be properly trained in safety and a manner to avoid falls, burns, back injuries, heat related afflictions, etc. Do not use coal-tar pitch, coal-tar bitumen, hot asphalt, or torch devices in conjunction with TUFF*Stik*® products. Not intended for direct application to any other surface other than TUFF*Stik*® Nail Base or over approved insulations and substrates. **STOP THE APPLICATION IF THE MEMBRANE HAS LOST ITS TACK OR DOES NOT BOND.**

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