



TUFFDRY, LLC

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RUFFING UNDERLAYMENT INSTALLATION GUIDELINES

TUFFDRY *TUFF85*, *TUFF90*, *TUFF95*, *TUFF100*, *TUFF120* and *TUFF150*, mechanically attached roofing material.

TUFFDRY *TUFF85*, *TUFF90*, *TUFF95*, *TUFF100*, *TUFF120* and *TUFF150* is a premium water barrier mechanically adhered synthetic roofing underlayment. It must be installed in a good, ventilated space.

FOLLOW ALL BUILDING CODES APPLICABLE TO YOUR GEOGRAPHIC REGION, STURCTURES AND CONSTRUCTION TYPE. LOCAL BUILDING CODES OVERRIDE AND SUPERSEED ALL OTHER INSTRUCTIONS

For Florida: Underlayment must be installed in accordance with the provisions of sections 1507 and 1518 of the FBC.

WARNING:

Fall protection devices should always be used when working on a roof. Always use appropriate personal safety equipment and work shoes designed for roof traction. Before walking on any underlayment surface, roofers must ensure to fasten the synthetic underlayment securely to the roof deck

STORAGE: TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* should be stored at room temperature, upright, in the original packaging, and in a dry and properly ventilated area. Keep away from open flames, sparks, harmful substances and away from any carcinogenic elements. Only rolls intended for the same-day installation should be removed from the storage area and original packaging.

USE: TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* must be covered by primary roofing materials within 180 days of application. These TUFFDRY roofing underlayment products are designed for use under asphalt and synthetic shingles, tile, slate or cedar shakes. TUFFDRY underlayment is not designed, or intended to be the final or primary roof.

ROOF DECK PREPARATION:

- Remove any protrusions from the roofing deck that may tear, puncture or otherwise harm the integrity of the underlayment material. The roof deck must be consistent, structurally sound and without any voids, damage or unsupported areas. The deck surface must be free of debris, completely dry and moisture free prior to installing the underlayment.
- TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* may be applied directly to a roofing deck made of plywood or OSB and should be fully covered as soon as possible, but no longer than 180 days after installation.
- For re-roofing projects, any damaged sheathing of any kind must be replaced, the roof deck must be cleaned to remove dust, splinters, dirt or any other loose materials including sharp edges, objects or nails. Make sure that the deck is free of any kind of debris BEFORE installing roofing underlayment. DO NOT install over old roof covering materials.
- Do not use mineral salts for removal of ice or snow prior to installation.

APPLICATION:

- For the best results TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* should be installed on a dry roofing deck when ambient air temperatures, membranes and substrate is over 40°F (4.4 °C)
- For low slope applications between 2:12 and 4:12 it is recommended to double the vertical and horizontal overlap of each piece of underlayment
- For roof slope of 4:12 and higher, TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* underlayment is to be installed horizontally (parallel to the eave) with the printed side UP, using proper overlapping for each piece, as per the roof slope and local building codes. Underlayment is to be installed in shingle lap fashion, with proper overlapping, starting at the bottom edge of the roof deck and working UP to the roof ridge. This type of overlapping will ensure that the water runs across the overlaps and off the roof, without getting under the material. 6" vertical lap and the 4" horizontal lap markings have been provided as part of the printing design for your convenience, however all measurements should be confirmed manually by the roofer to ensure

adherence to local building code requirements. The bottom edge should be aligned to the edge of the rake and eaves and applied under the metal drip edges along the rakes and over the metal drip edge along the eaves, unless otherwise specified by local building codes. DO NOT fold the underlayment over the roof edge unless the edge is to be subsequently covered by a drop edge or other flashing material. In a standard installation, TUFFDRY TUFF underlayment is to be fastened to the roofing deck using proper roofing nails and the proper nail pattern as printed on the product or otherwise specified by local building codes. Do not use staples. All anchoring must be performed snug and hammered flush and at 90 degrees to the roof deck, ensuring the material surface is held tightly with the roof deck. Before walking on the underlayment surface, roofers must fasten the synthetic underlayment securely to the roof deck with proper roofing nails. Do not install fasteners over unsupported areas or voids. Extend the product a minimum of 12" past all hips and valleys and lap up onto walls and abutments a minimum of 8". For batten secured installations, use appropriate length ring shank nails to secure battens to the roof deck, staples are not recommended. Do not install battens over cap nails.

- TUFFDRY *TUFF85, TUFF90, TUFF95, TUFF100, TUFF120* and *TUFF150* underlayment should be installed using low profile plastic or metal cap corrosion resistant nails with at least a 1-inch or more cap. As per your local building codes. The nails should be long enough to penetrate through the sheathing and a minimum of $\frac{3}{4}$ inch into solid roofing deck.
- Reference your local building codes for details on how to properly nail roofing underlayment to the roofing deck. Those local building codes will supersede any instructions provided here as guidance. You may choose to use the printed pattern as a guide, if it aligns to your local building codes. Starting as the eave, underlayment shall be attached with corrosion-resistant fasteners in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152 mm) spacing at side and end laps.
- For eve installation TUFFDRY underlayment should be applied over the metal drip edge at the eave. This should be installed above the maximum ice dam build-up line in most geographical areas. Study your local building codes for specific instructions and requirements.
- It is recommended that any damaged underlayment should be fully replaced. Repairs to holes, fish mouths, tears and any other penetration damage to the underlayment is not recommended, but can be accomplished with a round self-adhered patch with proper adhesion. The patch must extend the damaged area by at least 6 inches in all directions and ensure no damage. Do not install fasteners or nails through the underlayment membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.
- For higher elevations, high wind areas or regular wind driven rain areas, it is recommended to cover the entire roof deck with TUFFDRY's Sticky line of self-adhesive underlayment rather than traditional nail only, mechanically installed underlayment.

PRECAUTIONS:

- TUFFDRY underlayment is not designed or intended for indefinite outdoor exposure. The final roof (i.e. tile or metal) must be installed within 180 days of the underlayment membrane installation.
- Depending on the roof pitch and surface conditions, “blocking” may be required to support roofing material placed on the roof. It is required to seal the fastener holes that secured that blocking after they have been removed
- Protect any completed roof areas to avoid damage during roof installation and material transportation by installing protective boardwalks to enable passage of people, equipment and products across the area.

CAUTION: READ GOOD SAFETY PRACTICES BELOW:

As with any roofing product, always follow safe roofing practices and codes (OSHA) and always wear proper fall protection equipment when working on roofs. Release liners from peel and stick underlayment are slippery, and any kind of slippery materials should be removed from the work area immediately after application. Use caution when walking or standing on underlayment as slip resistance may vary with surface conditions, weather, footwear and roof slope. Before walking on any underlayment surface, roofers must ensure to fasten the synthetic underlayment securely to the roof deck. **Failure to use proper safety equipment and footwear can result in serious injury or death.**

NO WARRANTY, EXPRESSED OR IMPLIED, IS GIVEN AS TO THE MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHERWISE FOR APPLICATIONS OUTSIDE THE SCOPE OF THESE INSTALLATION GUIDELINES

Product is Made in India