



## INSTALLATION GUIDELINES

### 10 Square Roll - 4 ft. x 250 ft. - 35 lbs./Roll

#### Before you install 'Royal Shield'™:

Ensure strapping or roof deck is fastened in accordance with local Building Code requirements and all preparatory work has been completed and is safe;

Confirm the support structure is clean, smooth and free of obstructions, that there is no bowing, warps, delamination, or separation from rafters, trusses, or support structure. Royal Shield™ shall be installed using only compatible materials and as specified in these instructions;

Royal Shield™ is an underlayment and is intended to be a second layer of protection; it must be covered with Concrete or Clay Tile, Asphalt Shingles or Metal Roofing;

Should you have any questions or concerns regarding the installation of Royal Shield™ contact your supplier or local sales representative;

Royal Shield™ shall be installed by qualified, experienced installers adhering to WSBC and OSHA regulations; Synthetic underlayment may become slippery due to moisture, dust, debris or other conditions, which affect the level of surface friction. Always use caution and proper safety equipment when installing Royal Shield™; failure to comply with safety regulations can result in serious injury or death.

#### Installation Instructions:

Royal Shield™ Synthetic Roofing Underlayment is a

high performance, secondary layer, approved for installation beneath asphalt shingles and concrete tile steep-slope roofing systems.

Proper roof ventilation, as specified in local building codes and roof-system warranty guides is required as part of the installation of Royal Shield™.

Royal Shield™ is installed horizontally, parallel to the eaves, with the printed side showing and overlapped to shed water. Minimum Overlaps: 6" for vertical overlaps and 4" for horizontal overlaps.

Consult with your local Building Department or Building Official for information on the installation of Royal Shield™ underlayment for low slope roofs; defined as slopes pitched at (Inches Vertical: Inches Horizontal) 2:12 - 4:12 or 17% - 33%. Roofs pitched at 4:12 or greater are considered steep sloped roofs.

Low slope roofs: underlayment must be half lapped and for installation less than 2:12 (17%) slope, local building codes may require the installation of an approved membrane.

Royal Shield™ shall be securely fastened with corrosion resistant ring shanked roofing nails with a minimum 1" diameter plastic cap or corrosion resistant roofing nails with a 3/8" diameter head. DO NOT USE STAPLES.

Fastening patterns are indicated on the underlayment. Fasteners shall be driven perpendicular to the roof deck. Ensure fasteners are not over or under driven. Fasteners shall be spaced @ 12" o.c. (on center) in the



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center of the vertical and horizontal overlaps. The remaining area shall be fastened @ 12" o.c. vertically and @ 24" o.c. horizontally.

Royal Shield™ should not be exposed to ultra violet radiation for an indefinite period of time; the final roof system should be installed within 6 months. For expected prolonged exposure or in areas having high winds overlapping and fastening shall be doubled. Overlap shall be increased to 8" horizontal and 12" vertical. Underlayment shall be fastened @ 6" o.c. vertical and center laps and @ 12" horizontal throughout the field. Alternatively an approved sealant may be used between the lap and overlapping segments or two-sided adhesive seam tape.

When installing Royal Shield™ using battens; ring shanked nails or screws are permitted to secure underlayment, ensure fasteners are of adequate length. Do not superimpose the batten over cap nails. First remove the cap nail, apply a patch to the hole, and then use cap nails to secure the battens. Fasteners are to be considered a temporarily method to secure underlayment until battens or final roofing material is installed.

### Repairs:

Any damage to Royal Shield™ underlayment can be repaired with caulking or a similar sealant material that ensures a watertight seal and does not interfere with drainage. If drainage is hampered remove and replace the damaged segment and insert a new piece in a shingled manner – to shed water. Be sure to caulk and/or seal any incorrect application of fasteners to

prevent moisture penetration.

If Royal Shield™ underlayment seams and joints require the use of a sealant or adhesive, use a high quality, low solvent ASTM D4586 Type 1 or Federal Spec. SS-C-153C Type 1 standard roofing cement, made from asphalts considered self-healing and ductile. Alternatively, rubber butyl, urethane, and EPDM based caulking or tape sealant may be used.

For concrete and/or clay tile installation in Canada refer to CAN/CSA A220.1 06

For asphalt shingle installation in Canada refer to CAN/CSA A-123.3 Type II

NO WARRANTY, EXPRESSED OR IMPLIED, IS GIVEN AS TO THE MERCHANTABILITY, SUITABILITY FOR A PARTICULAR USE OR OTHERWISE FOR APPLICATIONS BEYOND THE SCOPE OF THESE INSTALLATION GUIDELINES.

30 Year Limited Warranty

ASTM D226-97      Type II  
CAN/CSA A123.3      Type II  
CAN/CSA A220.1      06



**KPNE Products Ltd.**

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