

Black Knight Underlayment Installation Instructions

SURFACE PREPARATION.

1. Black Knight can be installed over concrete, gypsum, wood and approved self-leveling materials. Wood subfloors must be prepared according to ANSI L/360 standards, or as required by the floor manufacturer.
2. Particleboard, chipboard, masonite, and lauan are not suitable underlayments.
3. Inspect subfloor/substrate before installing Black Knight. Subfloor must be dry, clean, smooth, level and structurally sound. It is the installer's responsibility to test for moisture in concrete or other cement-like surfaces. As per ASTM F710, subfloor must be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials. The surface should be flat to the equivalent of 3/16" (3.9 mm) in 10' or as recommended by the flooring manufacturer. If cracks or indentations are present on a concrete subfloor, a Portland-based patching/leveling compound must be used to patch these subfloor imperfections.
4. A pH test should be performed on concrete subfloors to ensure that levels do not exceed the limits of the selected adhesive.

MATERIAL HANDLING.

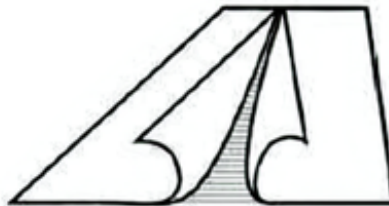
1. Inspect Black Knight for any visual defects prior to installing. Black Knight will not honor labor claims on material installed with any visually apparent defects.
2. Allow Black Knight to acclimate at room temperature for at least 24 hours before starting the installation.

INSTALLATION METHODS.

1. Floating Installation:
 - a. Unroll the Black Knight onto the floor and allow it to relax for 2 hours. Shaking the material will help it to relax.
 - b. Starting in the corner of the room, lay down the Black Knight so that it is perpendicular to the direction the flooring will be installed.
 - c. Trim the material to fit the surface area to be covered.
 - d. Align the second cut of material with the edge of the neighboring section so that the edges of the two sections touch but do not overlap. Use duct tape or carpet tape to hold the seams of the underlayment together. Continue to lay down the material in this manner until the surface area is covered.
 - e. Install the flooring per the flooring manufacturer's instructions.

2. Glue-Down Installation:

- a. Unroll the Black Knight onto the floor and allow it to relax for 2 hours. Shaking the material will help it to relax.
- b. Starting in the corner of the room, lay down the Black Knight so that it is perpendicular to the direction the flooring will be installed.
- c. Trim the material to fit the surface area to be covered.
- d. Align the second cut of material with the edge of the neighbouring section so that the edges of the two sections touch but do not overlap. Continue to lay down the material in this manner until the surface area is covered.
- e. Take one of the sections of material and fold it back halfway (half the width of the roll). For installations of Black Knight 2.0, use a 1/16" x 1/32" x 5/64" U notched trowel to spread adhesive under the folded back section of the material. For installation of Black Knight 5.0 or Black Knight 10.0, use a 1/16" square notched trowel to spread adhesive under the folded back section of material. Please refer to the Black Knight list of recommended adhesives for Black Knight products.
- f. Carefully lay the material into the wet adhesive. Do not allow the material to flop onto this adhesive, as this will trap air beneath the material.
- g. Fold back the second half of the material and the first half of the neighbouring sheet of material, as shown in the diagram below.



h. Spread the adhesive perpendicular to the seam created by the two sheets of material. This will limit the amount of adhesive that may be pushed through the seam. Never leave adhesive ridges or puddles, as they may pass through the material.

i. Within 45 minutes of laying the material onto the adhesive, use a 35 to 75 lb roller to roll over the Black Knight to ensure proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is properly rolled.

j. Repeat this procedure for all sections of the Black Knight until the room is finished.

k. Install the flooring per the flooring manufacturer's instructions.

3. Nail Down Installation:

- a. Follow the flooring manufacturer's directions for installing the flooring. Use the flooring manufacturer's recommended adhesives, procedures, and equipment.
- b. Do not mechanically fasten any material through Black Knight. Any mechanical connection, such as nails, screws, and staples will transmit noise through the building structure, compromising the performance of Black Knight.