

LOCK IT +

I. GENERAL INFORMATION

These installation guidelines apply to the Lock It + product only. All instructions and recommendations should be followed for a satisfactory installation.

The floor covering should be stored and installed in a climate controlled location with an average temperature between 55° - 85°F - 13°-29°C.

- Post installation temperature range is between 32 and 100 degrees F - 0°-37.7°C.
- Avoid exposure to direct sunlight for prolonged periods, doing so may result in discoloration. During peak sunlight hours, the use of the drapes or blinds is recommended.
- Regardless of new construction or remodeling projects, keep flooring stored in rooms that are not being worked in and only install product after all other trades have completed work that could damage the flooring.
- To minimize shade variation, mix and install planks from several cartons.
- Inspect all planks for damage before installing. If you have any concerns about the product fit or finish, call Shaw Information Services at 1-800-441-7429. Claims will not be accepted for flooring that has been cut to size and/or installed.
- All subfloor patching must be done with a Portland based compound and allowed to dry completely prior to installing flooring.
- Installation – Floating or glue down methods - installed on, above, or below grade.

Tools: Tape Measure, Utility Knife, Jigsaw, Tapping Block or Rubber Mallet, Pull Bar, 1/4" Spacers, T-Square, Safety Glasses, Broom or Vacuum and, if necessary, tools for subfloor repair.

II. SUBFLOOR INFORMATION

All subfloors must be clean, flat, dry and structurally sound. The correct preparation of the subfloor is a major part of a successful installation. Subfloor must be flat - 3/16" in 10' or 1/8" in 6'.

Underlayments - For floating installations an underlayment is generally not required. That said, if you prefer an even quieter installation we do offer an approved underlayment -- Groundworks. We recommend installing several planks of Lock It + in your room and walking on them to determine if the extra step of underlayment meets your needs better.

CAUTION: Some types of nails, such as common steel nails, may cause discoloration of the vinyl floor covering. Recommendations for attaching underlayment panels are not included. Solvent based construction adhesives are known to stain vinyl floor coverings. All responsibility for discoloration problems caused by the use of the above mentioned products is not the responsibility of Shaw, but rests with the installer and the underlayment panel manufacture

A. Wood Subfloors

1. Do not install material over wood subfloors that lay directly on concrete or over dimensional lumber or plywood used over concrete.
2. Do not apply sheet plastic over wood subfloors.
3. Basements and crawl spaces must be dry. Use of a 6 mil black polyethylene is required to cover 100% of the crawl space earth. Crawl space clearance from ground to underside of joist is to be no less than 18" and perimeter vent spacing should be equal to 1.5% of the total square footage of the crawl space area to provide cross ventilation. Where necessary, local regulations prevail.
4. All other subfloors - Plywood, OSB, particleboard, chipboard, wafer board, etc. must be structurally sound and must be installed following their manufacturer's recommendations. Local building codes may only establish minimum requirements of the flooring system and may not provide adequate rigidity and support for proper installation and performance.
5. Lock It + is not recommended directly over fire-retardant treated plywood or preservative treated plywood. An additional layer of APA rated 1/4" thick underlayment should be installed.

B. Concrete Subfloors

Floors shall be smooth, permanently dry, clean, and free all foreign material such as dust, wax, solvents, paint, grease, oils, and old adhesive residue. The surface must be hard and dense, and free from powder or flaking.

1. New concrete slabs must be dry. Maximum moisture level per CaCl test method is 8 lbs. per 1000 in 24 hr. Maximum level for ASTM 2170 In-situ Relative humidity test method - 85%.
2. Do not install over concrete with a history of high moisture or hydrostatic conditions.
3. Ph level of concrete should be between 5- 9
4. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

Radiant Heat: Hydronic only - Radiant heat components must have a minimum of 1/2" separation from the product. This is the only type of radiant heat system that is approved. Radiant heat system must be on and operational for at least 2 weeks prior to installation to reduce residual moisture within the concrete. Three days prior to installation lower the temperature to 65 degrees, after installation gradually increase the temperature in increments of 5° F to avoid overheating. Maximum operating temperature should never exceed 85°F. Use of an in-floor temperature sensor is recommended to avoid overheating.

! WARNING! DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVES OR OTHER ADHESIVES.

These products may contain either asbestos fibers and/or crystalline silica. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material. See current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for Removal of Resilient Floor Coverings for detailed information and instructions on removing all resilient covering structures. For current information go to www.rfci.com

C. Existing Floor Coverings

Lock It + can be installed over most existing hard-surface floor coverings, provided that the existing floor surface is clean, flat dry and structurally sound.

- Existing sheet vinyl floors should not be heavily cushioned and not exceed more than one layer in thickness. Soft underlayment and soft substrates will diminish the products inherent strength in resisting indentations.
- Installation is NOT allowed over any type of carpet.
- Do NOT install over wood floors adhered to concrete.
- Never use solvents or citrus adhesive removers to remove old adhesive residue. Solvent residue left in and on the subfloor may affect the new floor covering.

III. INSTALLATION

Floating Installation: Lock It + is designed to be installed utilizing the floating method. Never secure the planks to the subfloor when using the floating installation method. Do not install cabinets or fixed objects on top of the flooring. Proper expansion space (1/4") is required. Undercut all doorjamb. Do not fasten wall moldings and or transition strips to the planks.

Glue Down Installation: On, above and below grade. Lock It + is approved for glue down installation over approved wood and concrete substrates. Recommended adhesive - Shaw 4100 adhesive. Use a 1/16"x1/16"x 1/16" sq. notch trowel. Follow adhesive label instructions including the required temperature for the adhesive. Maintain 1/4" perimeter expansion space.

Moisture testing and limits for glue down - maximum

ASTM F-1869 - 5 lbs. or less per CaCl test method

ASTM F-2170 - 90% RH or less

The PH level should be between 5-9

1. Before you start with the installation, it is important to determine the

layout of the flooring. Proper planning and layout will prevent having narrow plank widths at wall junctures or very short length pieces at the end of rows.

2. As with all plank products, install the planks parallel to the longest exterior wall.
3. Determine if the starter row will need to be cut. If the first row of planks does not need to be trimmed in width, it will be necessary to cut off the unsupported tongue so that a clean, solid edge shows towards the wall.
4. Installation of the product must start from the left side of the room, working to the right when working in front of the planks or facing the starting wall. Use spacers along the walls to maintain proper expansion space (1/4") and align the first plank.
5. Install the second plank in the row by aligning and dropping the end tongue over the end groove of the first plank. Apply light pressure to join the two planks together.
6. If needed use a rubber mallet to fully engage the short side of the plank by lightly tapping the plank to engage and sit flush with the adjacent plank. Maintain an expansion gap of approximately 1/4" from the wall. Repeat this process to complete the first row.
7. Start the second row by cutting a plank to the desired length. Keep in mind that the plank must not be shorter than 6" (15cm) to achieve the best appearance.
8. Install the first plank in the second row by inserting the long side tongue into the groove of the plank in the first row. This is best done with a low angle of the plank. Maintain light pressure into the side seam as you rotate the plank to the subfloor. Repeat the process with additional planks to complete each row. Very little force is required to seat the

tongue into the groove. You should feel the tongue lock into the groove.

9. It is critical to keep the first two rows straight and square, as they are the "foundation" for the rest of the installation. Check for squareness and straightness often.
10. Continue installing planks and make sure to achieve a random appearance with end pieces of minimum 6" - 15cm. Check that all planks are fully engaged; if a slight gapping is found, the gap can be tapped together by using a tapping block and a scrap of flooring to cover the tapping block in order to avoid damages on the planks.
11. To fully engage the short end, apply light pressure and press down to engage the end joint. If the end is raised use a non-marking rubber mallet to lightly tap the end (tongue side) about 1" from the seam. Do NOT tap directly on the seam.
12. When fitting under door casings, if necessary, a flat pull bar may be used to assist in locking the planks.
13. When fitting around obstacles or into irregular spaces, planks can be cut easily and cleanly using a utility knife with a sharp blade. It is often beneficial to make a cardboard template of the area and transfer this pattern to the plank.
14. Protect all exposed edges of the flooring by installing wall molding and/or transition strips. Make sure that no plank will be secured in any way to the sub floor.
15. For wet areas such as bathrooms caulk the perimeter of the floor with a silicone caulk.
16. Protect the finished flooring from exposure to direct sunlight to reduce fading and thermal expansion.

INSTALLATION TIPS

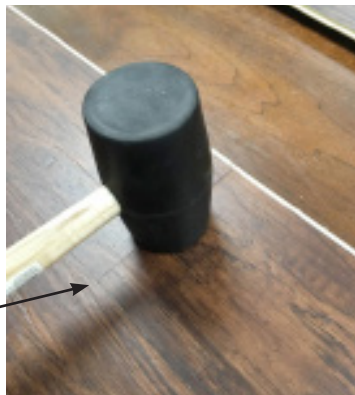
LOCK IT +

Lock It + solves a multitude of issues by allowing for easier subfloor preparation and eliminating the need for 48 hours of acclimation time. In addition, its fold and tap installation method allows for a superb, long lasting solution for light commercial establishments.

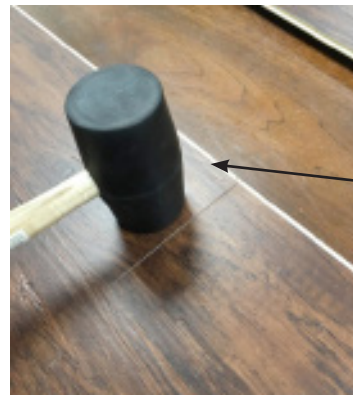
Three simple steps for a quick and successful Lock It + installation

Note: During installation, you will find that the end seams (short side seams) fit VERY TIGHTLY together. This is absolutely normal and necessary to allow for the flooring, once installed, to resist the penetration of liquids from spills. Further, the tightness of these seams is necessary to guarantee long-lasting performance. Once these end joints are securely locked - they are designed to remain that way.

1. When folding a plank down, place the "tongue end" (the plank that is being folded down) into the "groove end" of the installed plank. Make sure the plank ends are aligned squarely with one another.
2. Using your thumb, apply firm pressure at points all along the seam. This step securely engages the locking mechanism which consists of two teeth for added stability. It is possible that you can feel and even hear the joint engage at this point.
3. Check the seam for ledging (one plank still slightly higher than the other) by rubbing your fingers/hand gently across the seam. Moderate ledging (*uneven plank heights at the seam*) can still be present at this point. If so, this means that only one of the two locking "teeth" are engaged and that further efforts need to be made to fully engage the locking system. At this point, put VERY firm pressure on the part(s) of the seam where ledging exists. It can be helpful to place the head of the rubber mallet directly onto the seam where ledging exists and apply your weight onto the mallet head by pressing down. After doing this, check for ledging by rubbing your fingers/hand gently across the seam.
4. If ledging is still present, firmly TAP (not a full-fledged STRIKE) all along the seam to fully-engage the lock. IMPORTANT: When TAPPING along the seam, **DO NOT tap directly onto the seam (photo on left)**. Instead, the mallet head should strike about 1/2 inch to 1 inch away from the seam ON THE TONGUE SIDE (photo on right).



Incorrect mallet position



Correct mallet position

NOTE: NEVER use the mallet strike to engage the seam until it is first engaged by using direct pressure (**PRESSING, NOT TAPPING**) from your thumb or from the mallet head. Directly striking the seam with a mallet at this point can and will easily damage or destroy the tongue's locking mechanism. At this point ledging will remain permanently as the joint will no longer lock and may even move freely with pressure at the seam indicating a failure to lock.

NOTE: NEVER, EVER tap directly onto the seam. **ALWAYS** tap about 1/2" to 1" away from the seam **ON THE TONGUE SIDE**. Tapping directly onto the seam with a mallet can and will easily cause the "locking teeth" to be destroyed and or tongue to drive straight through the groove bottom resulting in a failure to lock and permanent ledging.

Questions or comments about HSQC technical communications should be routed through the Hard Surfaces Quality Control department as follows:

Hard surfaces technical/installation/warranty issues **Len Daubler (706) 532-7588**

Resilient and associated sundries issues **Greg Wilkins (706) 965-0744**

General quality and claims issues **Chris Willingham (706) 275-5415**

General quality issues and concerns **Bob Grant (706) 965-0770**