

Congoleum®

Endurance[™] Plank & UNDERflor[™]

A Quick, Easy and Affordable Floating Resilient Plank System

UnderFlor is the all-in-one underlayment system for floating installations of Endurance Plank.

UnderFlor provides an economical solution for installing Endurance Plank as a floating flooring system over a variety of subfloor surfaces.

Now, one underlayment covers it all:

- Wood – Including Particleboard, OSB and even stripwood
- Concrete
- Most old hard surface flooring
- Gypsum topping
- Even old adhesive residue and painted surfaces.

UnderFlor is available in 6' wide rolls, and since it's a floating underlayment, it requires no fasteners or special tools.

It's **quick** and **easy** to install.



Fig. 1. Unroll with vinyl side down.



Fig. 2. Cut leaving 1/4" space at perimeter.

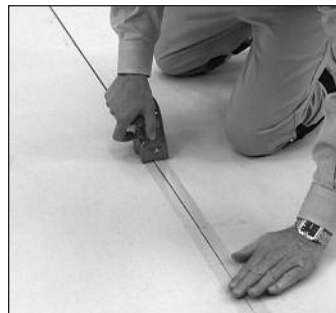


Fig. 3. Butt edges and apply clear, thin packaging tape.



Fig. 4. Apply adhesive and install Endurance Plank.

Subfloor Information

Subfloor Surface	When Installed over UnderFlor	When Directly Adhered to Subfloor
Suspended Wood subfloor over joist or trusses up to 19.2" OC	<ul style="list-style-type: none"> • Single layer Sturd-I-Floor rated panel 23/32" or heavier • Double layer construction, minimum 1" thick 	Double layer construction, minimum 1" thick with suitable underlayment panel.
Wood Underlayments	Plywood and other hardwood veneer panels, oriented strand board, NPA rated particle board	APA rated Underlayment grade plywood and other underlayment grade veneer panels. Do not install directly adhered over oriented strand board or particle board.
Concrete, on, above and below grade	With vapor emissions up to 5 pounds.	With vapor emissions up to 3 pounds.
Lightweight Concrete and Gypsum Topping with a minimum 2000 psi compression rating	Preferred Method	Must be smooth, dry and in sound condition. Repair all cracks and damaged areas. Seal with a sealer/primer recommended by the topping manufacturer. A bond test is recommended. Do not install over powdery surfaces.
Radiant Heated Floors	Preferred Method	Gapping at end joints can occur with temperature fluctuations.
	The temperature of the floor should be limited to 70°F (21°C) for 24 hours before, during and 48 hours after installation. There after the maximum floor temperature should not exceed 85°F (29°C).	
Existing Resilient Flooring and Tile	Must be single layer, fully adhered and in good condition. Do not install over heavy cushioned or cushioned backed flooring or tile installed below grade.	Must be single layer, fully adhered, and in good condition. Do not install over heavy cushioned or cushioned backed flooring, tile installed below grade or self adhering tile. Remove wax or polish and level embossed areas with an embossing leveler.
Ceramic, Marble and Granite	Tile must be well bonded. Grind high spots and fill low areas to a smooth surface with a latex modified portland cement underlayment.	

Preparation of the Subfloor and Installation of UnderFlor:

- The subfloor surface must be smooth and flat.
- Sand any rough surfaces and/or uneven joints.
- Fill any cracks in concrete or panel joints wider than 1/8" with patching compound.
- Keep UnderFlor rolled around a tube with the vinyl side facing out until installation.
- Roll out the first sheet of UnderFlor with the vinyl side down (Fig. 1).
- Make sure the seams in the UnderFlor run perpendicular (at right angle) to the long dimension of the planks.
- Trim the sheet to fit the room leaving 1/4" between the edge of the UnderFlor and the wall (Fig. 2).
- Unroll the next sheet and butt the edge lightly against the first sheet.
- Fasten the sheets using a 2" wide clear packaging tape. (Fig. 3)
- Do not use thick tapes such as masking tape or duct tape as they can telegraph through the finished flooring.
- Apply the tape centered over the seam and make sure it lays flat by rolling it with a hand seam roller.
- Mark starting lines on the UnderFlor.

Installation of Endurance Plank:

- Apply Congoleum DS100 adhesive using the trowel blade adapter provided or a 1/16"x 1/32" x 1/32" trowel (Fig. 4).

- After applying the adhesive, if you see some slight growth bubbles in the UnderFlor, don't worry, this can happen and will not affect the finished flooring.
- When the adhesive has dried clear and tacky (approximately 30-40 minutes), you can begin to install the Endurance Plank by following the proper installation recommendations.
- Make sure the staggered end joints fall at least 2" away from the UnderFlor seams.
- Be sure to leave a gap of 1/4" around the perimeter of the room.
- When you install the trim and transition moldings, be sure they don't restrict or bind the finished flooring.

Endurance Plank Repairs:

Repairs are very simple. To replace a damaged plank:

- Warm the plank with a heat gun.
- Use a sharp utility knife to cut through a corner of the damaged plank taking care not to cut into the UnderFlor.
- Lift the end of the plank and continue heating.
- As you provide sufficient heat, the plank will release from the adhesive.
- Lift out the entire plank and warm the exposed adhesive.
- Install the new plank and set it firmly into place with a hand roller.

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