

CONGOLEUM PLANK

Plank Size: (Nominal)	3" x 36"
Sq. Ft./Carton	27
Planks/Carton:	36 pieces
*Adhesive:	AD-72

*NOTE: AD-72 must be used over bare wood and concrete. Refer to the section on Existing Resilient Floors for special instructions on using Congoleum DS100 DuraSet Adhesive over existing resilient flooring.

TEMPERATURE

The importance of proper temperature at the time of installation, in order to minimize thermal dimensional changes of Plank, cannot be overemphasized. The subfloor, all flooring material, and adhesive must be conditioned at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during and 48 hours after installation. Thereafter, maintain a room temperature between 55°F (13°C) and 100°F (38°C). NOTE: Exposure to extreme temperature variations can cause thermal expansion or contraction resulting in edge curl or gaps between tile.

GENERAL INFORMATION

When using flooring from two or more cartons, make sure pattern and run numbers are the same. This information is stenciled on the outside of each carton.

Congoleum Plank has been specifically arranged and packaged in its carton to assure a natural random appearance to the finished floor after installation. Planks should be installed in the order they are packed in the carton, being sure to complete one stack at a time. Complete a dry layout in a small section of the room to confirm the best arrangement. Remember to offset end joints randomly in each row. Arrows printed on the back of the plank do not need to be pointing in the same direction. Plan the layout to avoid small cuts at the border. Place cut ends toward the wall. NOTE: The embossing along the perimeter of the plank will vary in width to create a handcrafted visual appearance.

TOOLS AND MATERIALS

- Adhesive and notched trowel (See "Adhesive" for recommended notch trowel)
- 100-pound, 3-section, steel roller

- Chalk line and chalk
- Carpenter square
- Utility knife (tile cutter optional)
- Cutting board
- Tape measure or rule
- Kneeling board

SUBFLOOR REQUIREMENTS

Congoleum Plank may be installed over dry concrete on all grade levels, suspended wood floors and radiant-heated floors not to exceed 85° (29°C) with AD-72 Adhesive. **All surface imperfections must be leveled with a portland cement-based latex patching compound. The use of gypsum-based patching compound is not recommended by Congoleum where Plank is installed.**

CONCRETE

Subfloors must be clean, dry, smooth, and free of extraneous materials including: paint, efflorescence, curing, hardening and parting compounds, sealers, and old adhesive residue. Congoleum does not recommend the installation of Plank where excessive moisture, vapor emissions, hydrostatic pressure or alkali conditions exist. Installation failures resulting from these conditions are not warranted by Congoleum.

WOOD

Wood subfloors must be structurally sound and free of movement with at least 18" of well-ventilated air space below. Single-layer floors and double stripwood floors must be covered with a 1/4" or heavier underlayment to achieve a total subfloor thickness of 1". Single-layer stripwood floors should be covered with a minimum 3/8" underlayment.

Approved underlayments include APA-rated panels with the following grade designations: Underlayment grade and C-C Plugged Exterior grade both with fully sanded face, lauan plywood Type 1, Grade BB (5.2 mm minimum thickness). Other panels may be suitable for use as underlayments for resilient floor coverings. Consult your supplier for recommendations and warranty information prior to performing the installation. Fasten underlayment with 1 1/4" ring-shank nails or approved divergent staples, spaced as follows:

Underlayment Thickness	Interior	Along Edges
1/4"	4"	2"
3/8" or heavier	6"	3"

Sand underlayment joints level and fill gaps wider than 1/32".

EXISTING RESILIENT FLOORS

⚠ WARNING: DO NOT SAND, DRY SWEEP, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUT-BACK" ADHESIVE, OR OTHER ADHESIVE. THESE PRODUCTS MAY CONTAIN **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. WHENEVER POSSIBLE, EXISTING FLOORING SHOULD BE LEFT IN PLACE AND THE NEW FLOOR INSTALLED OVER THE TOP. IF YOU MUST REMOVE OLD FLOORING MATERIAL, CONTACT YOUR RETAILER OR CONGOLEUM CORPORATION INSTALLATION DEPARTMENT, P.O. BOX 3127, MERCERVILLE, NJ 08619, FOR A COPY OF RECOMMENDED WORK PRACTICES. THESE PRACTICES SHOULD BE FOLLOWED.

Various federal, state, and local government agencies have regulations governing the removal of in-place asbestos containing material. If you are considering the removal of a resilient floor covering structure that contains or is presumed to contain asbestos, you must review and comply with all applicable regulations. Regulations outside the United States may vary.

Copies of the Resilient Floor Covering Institute *Recommended Work Practices for the Removal of Resilient Floor Coverings* are available from:

Congoleum Corporation
Installation Department
P.O. Box 3127
Mercerville, NJ 08619
or
Resilient Floor Covering Institute
401 East Jefferson Street
Suite 102
Rockville, MD 20850

Please note that the RFCI Recommended Work Practices are subject to change as new information and practices are incorporated. It is your responsibility to determine that the Recommended Work Practices you use are those in effect.

Whenever possible, it is desirable to leave the old flooring in place with the last alternative being removal.

Congoleum Plank may be installed over qualifying old resilient flooring using DS100 DuraSet Adhesive. Shrinkage of the plank may occur if the room temperature fluctuates below 70°F (21.1°C) or above 75°F (23.9°C). Where fluctuations are expected to occur, Congoleum recommends the old floor be covered with an approved wood underlayment (if subfloor is of wood construction) or removed following Recommended Work Practices and applicable regulations; the plank should then be installed with AD-72 Adhesive.

Suitable old, resilient floors should be smooth, non-cushioned, single layer, fully adhered, securely bonded, and in good condition. All floor polish, wax, and finish should be stripped with a liquid stripping solution following label instructions.

Do not install over existing cushioned or embossed flooring, flooring with a urethane wear surface tile installed on concrete below grade level, or existing self-adhered flooring.

MOLD AND MILDEW ISSUES

Prior to removing an existing floor following the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings (unless state or local law requires other measures), if there are visible indications of mold or mildew or the presence of a strong musty odor in the area where resilient flooring is to be removed or installed, the source of the problem should be identified and corrected before proceeding with the flooring work. In virtually all situations, if there is a mold issue, there is or has been an excessive moisture issue. Visible signs of mold or mildew (such as discoloration) can indicate the presence of mold or mildew on the subfloor, on the underlayment, on the back of the flooring, and sometimes even on the floor surface. If mold or mildew is discovered during the removal or installation of resilient flooring, all flooring work should stop until the mold or mildew problem (and any related moisture problem) has been addressed.

In areas where flooding has occurred, it is recommended that damaged flooring be removed following the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings

(unless state or local law requires other measures). Any underlayment and subfloor should be allowed to thoroughly dry and, if necessary, cleaned, disinfected, and otherwise remediated consistent with the U.S. Environmental Protection Agency (EPA) guidelines referenced below. Any structural damage or signs of mold or mildew must be corrected before reinstalling resilient flooring. This may include for example replacement of the underlayment and/or subfloor.

For water damage caused by leaking fixtures, the source of the moisture leak must be located and corrected. Any structural damage must be repaired and any signs of mold or residual moisture must be addressed before replacing the resilient flooring in the affected area.

To deal with mold and mildew issues, you should refer to the EPA guidelines that address mold and mildew. Depending on the mold and mildew condition present, those remediation options range from cleanup measures using gloves and biocide to hiring a professional mold and mildew remediation contractor to address the condition. Remediation measures may require structural repairs such as replacing the underlayment and/or subfloor contaminated with mold and mildew as a result of prolonged exposure to moisture.

The EPA mold guidelines are contained in two publications "A Brief Guide to Mold, Moisture and Your Home" (EPA 402-K-02-003) and "Mold Remediation in Schools and Commercial Buildings" (EPA 402-K-01-001). Appendix B of the "Mold Remediation in Schools and Commercial Buildings" publication describes potential health effects from exposure to mold, such as allergic and asthma reactions and irritation to eyes, skin, nose and throat. These publications can be located on EPA's website at www.epa.gov/iaq/molds/

PREPARING THE AREA

Remember to condition all flooring material, subfloor, and adhesive at 65°F (18°C) to 85°F (29°C) for 48 hours prior to, during, and 48 hours after installation.

- Move all furniture, appliances, and fixtures from the room.
- Remove all binding strips or other restrictive molding from doorways, walls, etc.
- For a more professional-looking job, undercut the wood door casing where possible so that the flooring can be slid under it.

FLOOR LAYOUT

Place a mark in the center of the floor at each end of the room. Snap a chalk line between the marks (Figure 1).

It may be necessary to adjust the center line to avoid small border pieces at side walls. To do this, measure the distance between the center line and the side wall. Divide the measurement by the plank width (3"). If the remainder is less than half a plank width, adjust the center line one half the width of a plank in either direction (Figure 2).

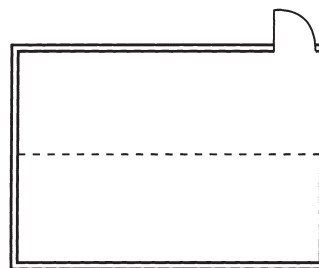


Figure 1: Center line

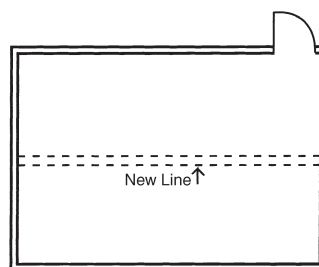


Figure 2: Adjust center line

ADHESIVE

Subfloor	Adhesive	Trowel
Wood, Concrete	AD-72	1/16"W, 1/16"D, 1/16" Apart
Old Resilient Floors	DS100	1/16"W, 1/32"D, 1/32" Apart

Periodically check the trowel for notch wear.

CONGOLEUM AD-72 ADHESIVE

Congoleum AD-72 is a wet-set adhesive that dries hard to resist thermal expansion and contraction of plank. Because it is a wet-set adhesive, AD-72 can only be used on porous surfaces such as wood and concrete. AD-72 will not dry when applied over old resilient floors. Therefore, whenever possible old resilient floors should either be removed or covered with wood underlayment.

ADHESIVE APPLICATION

Snap chalk lines to divide the room into smaller sections for adhesive application. Measure accurately from the center line out toward the wall (Figure 3). Each section must be a multiple of the plank width (3"), to allow for easy reach, and be no larger than an area that can be covered with flooring in approximately 20 minutes.

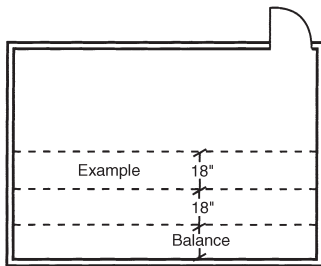


Figure 3: Divide the room into sections

Spread adhesive in the section farthest from the entrance doorway with a 1/16" x 1/16" x 1/16" square notch trowel. Allow a few minutes open time for adhesive to tack up, then install planks immediately before it skins over or dries. Adhesive working time is approximately 20 minutes under normal conditions.

Carefully position the first row of plank along the chalk line and then work toward the wall. Do not slide planks into place. Position each plank lightly against the previously laid plank and press it firmly into the adhesive (Figure 4). Work in straight rows or a pyramid fashion installing cut pieces as you continue. Periodically check to be sure at least 95% of the adhesive pattern has been transferred to the back of the plank. If adhesive starts to set up or skin over, scrape it up and reapply fresh adhesive.

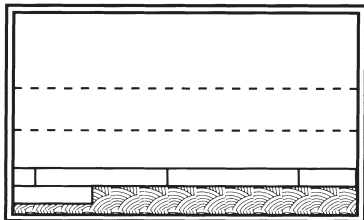


Figure 4

Roll the floor with a 100-pound, three-section, steel roller immediately upon completing each section. Remove adhesive smears with a clean cloth and soapy water. Use a cloth dampened with mineral spirits to remove dry or tacky adhesive. **CAUTION:** Mineral spirits is flammable. Read and follow cautions on container label.

Continue installing flooring in a random fashion, completing each section (Figure 5) before starting the next. Avoid stepping or working on freshly laid flooring. A kneeling board will be required to complete the final section. Reroll the entire floor after one or two hours.

Do not wash the floor for at least 48 hours. Restrict traffic for 24 hours.

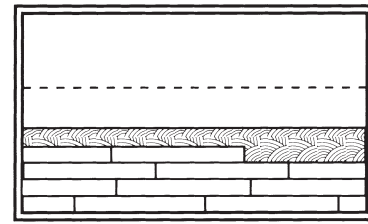


Figure 5.

ADHESIVE APPLICATION OVER EXISTING RESILIENT FLOORING

Spread Congoleum DS100 adhesive over one-half the floor with a 1/16" x 1/32" x 1/32" semicircular notch trowel. Allow adhesive to dry to a tack, normally 45 to 60 minutes, before installing plank. Adhesive will turn from light blue to clear when ready. Install plank starting at the center line, working out toward the walls (Figure 6). Install planks as previously indicated.

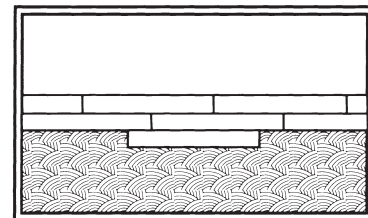


Figure 6.

CUTTING PLANK TO FIT

The last row of plank will need to be cut to fit to walls and other vertical surfaces.

STRAIGHT CUTS

Place a loose plank directly over the top of the last full plank, making sure all edges are lined up. Using a whole plank as a measuring device, position one edge against the wall and mark the loose plank with a pencil along the opposite edge (Figure 7).

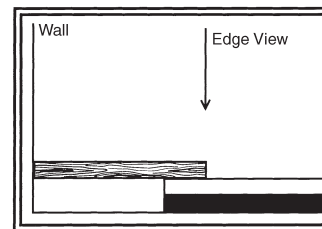


Figure 7.

Next, place the marked plank on a cutting board. Using a carpenter square as a guide, score the pencil line deeply with a sharp knife. Break or

cut plank along the score mark. **CAUTION:** Keep fingers away from knife blade to avoid injury. Install the plank with the cut edge against the wall.

IRREGULAR CUTS

Before spreading adhesive, make a pattern or template out of heavy paper or cardboard to fit to irregular shapes such as door trim, pipes, etc. (Figure 8). Trace the pattern onto the plank and cut with a utility knife or coping saw.

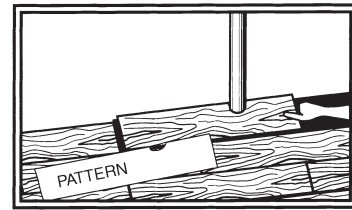


Figure 8.

Replace the base moldings and return appliances and furniture to the room by rolling or sliding them over strips of hardboard.