

ATTENTION: Always refer to the most current technical information available at www.lonseal.com, and review completely prior to starting the job. Lonseal reserves the right to change its products' design and material, or to improve products or processes at any time without notice. Installation procedures and use of Lonseal products must be in strict accordance with Lonseal's technical documentation for warranty terms to be valid.

RELATED TECHNICAL DATA SHEETS:

- ▶ #400 Contact Adhesive
- ▶ #650 Two-Component, Solvent-Free Epoxy Adhesive
- ▶ #813 Sheet Vinyl Adhesive
- ▶ Double Face Tape (DFT)
- ▶ Lonsealer
- ▶ Lontape
- ▶ Show Tape
- ▶ Welding Thread

APPLICATION (TEMPORARY):

1. Ensure the substrate is clean and free of debris. Any subfloor or substrate imperfections will telegraph to the surface. If possible, prepare the approved substrate as detailed in the Interior Flooring Manual to eliminate potential telegraphing.
2. Ensure all products have been properly acclimated prior to installation. When installations are not performed in a controlled environment, dimensional changes with the flooring must be taken into consideration. See **Notes** below for additional information.
3. Lay out the flooring, making all necessary cuts and pattern alignments. Mark the substrate with a pencil or chalk line only to note the perimeter of the sheets being installed, along with the seam locations.
4. Apply the Show Tape to the substrate at the perimeter location of each sheet, which should also result in two adjacent pieces at every seam. Then apply additional tape spaced a maximum of 12 in. (30.5 cm) apart in roll direction within the field of each sheet. Alternatively, the tape may be applied directly to the back of the flooring. The more tape that is applied, the more secure the floor's bond will be to the substrate. An inadequate quantity of tape could result in buckling across the surface of the sheet. For flooring with a factory-applied urethane finish, a full spread of tape is highly recommended.
5. Place and align the first sheet, and tube (fold the flooring over itself lengthwise) one half of the sheet. Take care, and keep the radius large when folding the material. Failure to do so could result in damage to the flooring, and visual imperfections may appear on the surface.
6. Begin pulling the liner off the tape at an angle until a significant portion of the tape has been exposed. Slowly un-tube the material and apply pressure from the center out to the edge to reduce the chance of air bubbles.
7. Tube the other half of the sheet and repeat step 6.
8. Continue until the installation is fully adhered. To ensure the best adhesion, roll the material using a minimum 100 lb. (45.4 kg), three-section roller in both directions. If this is not possible, a laminate or hand roller may be used, but extra force must be applied to ensure strong, positive contact.
9. Avoid peeling or prying of the edges to ensure the best bond.
10. Seams may be left untreated or heat welded.
11. Perform initial maintenance. If an unfinished floor is being used, the application of a finish may be omitted, but take into consideration that daily maintenance could require extra work.
12. Upon completion of the show, the releasing agent in the Show Tape allows for easy removal from the substrate. Any residue that remains on the substrate can be removed with a mild detergent and warm water applied to a clean cloth.
13. If the flooring is intended to be reused, remove the tape and brush any debris or soiling from the back of the flooring. Roll the flooring onto a firm, cardboard core face out and wrap tightly, and packaging it securely. Store all rolls standing on end when not being transported.

Disclaimer: Due to the nature of this type of installation, only the limited defect warranty will apply.

APPLICATION (PANELS):

1. Prepare the approved substrate as detailed in the Interior Flooring Manual.
2. Ensure all products have been properly acclimated prior to installation. When installations are not performed in a controlled environment, dimensional changes with the flooring must be taken into consideration. See **Notes** below for additional information.
3. Apply a full spread of the #400 to the back of the flooring and the panel using a 3/8 in. (9.5 mm) nap roller or paint brush. After allowing for sufficient open time, place the flooring onto the panel. The #400 should still be slightly wet. Do not allow the #400 to dry, as this will result in a poor bond.
4. Roll the flooring using a J-roller or three-section laminate roller, putting enough weight behind it to ensure strong, positive contact. The #400 results in an instant bond and should not be disturbed after rolling. When installing on multiple panels, place them in a horizontal stack face-to-face until the adhesive has cured.
5. The #400 should be fully cured in 48 – 72 hours.
6. Once cured, perform initial maintenance if necessary.
7. Clean and stack the panels face-to-face, either horizontally or vertically, to protect the surface of the flooring during storage or transport. Proper care and storage will help prolong the life of the floor.

APPLICATION (PERMANENT):

1. Prepare the approved substrate as detailed in the Interior Flooring Manual.
2. Ensure all products have been properly acclimated prior to installation. When installations are not performed in a controlled environment, dimensional changes with the flooring, and differing open, working, and curing times for the adhesives, must be taken into consideration. See **Notes** below for additional information.
3. Apply a full spread of the adhesive using the appropriate trowel size.
 - ▷ For fully interior, environmentally controlled spaces: Use the #813 adhesive for horizontal applications, and either the #813 or #400 adhesive for non-horizontal applications.
 - ▷ For all other installation locations: Use the #650 adhesive for horizontal applications, and the #400 adhesive for non-horizontal applications.
4. After allowing for adequate open time, roll the flooring into the adhesive using a minimum 100 lb. (45.4 kg), three-section roller. Roll again 2 to 3 hours later if the #650 was used.
5. Heat weld seams 24 hours after installation. The use of Lonsealer and DFT is only permitted in fully interior, environmentally controlled spaces where #813 has been used. Refer to the Lonsealer and DFT Technical Data Sheets for additional information on their proper use.
6. Perform initial maintenance 48 hours after installation.
7. After 72 hours the adhesive will be fully cured.

NOTES:

- A. When cutting flooring to fit the installation location, be aware that sheet vinyl is subject to dimensional change. Lonseal accepts no responsibility for dimensional changes to flooring that is cut into shapes or cut outside recommended environmental conditions. The amount of change will depend on the environment in which the flooring is cut versus the environment in which it is installed. Keeping the flooring acclimated in similar, if not the same, environments can help reduce or eliminate this natural occurrence, as can cutting the flooring slightly larger than needed and trimming it to the correct size after installation. Optimal acclimation and installation conditions will be in a controlled environment between 65 – 85 °F (18.3 – 29.4 °C).
- B. Lonseal brand adhesives are intended to be used in a controlled environment to ensure they perform as intended. When not installing in a controlled environment, the adhesive may have different curing times. A bond test should be performed to determine how the adhesive will be affected by these types of installation conditions.
- C. Lontape may be used as an alternative to the adhesives noted under the “Panels” or “Permanent” type installations. Follow the application instructions as noted in the Lontape Technical Data Sheet. Heat welding may be performed the same day as installation and initial maintenance may be performed 12 hours after installation. If the permanent application permits the use of Lonsealer as noted above, no DFT is required.
- D. If using the floor to display products containing rubber or vehicles, do not allow direct contact with the flooring. Place a protective layer between the rubber or tires and the flooring to prevent staining from plasticizer migration, a normal occurrence when rubber comes into contact with vinyl. Lonseal recommends the use of clear, acrylic sheets, since they will still allow the flooring to be seen.
- E. For temporary show floors, it is possible to permanently adhere the Lonsafe underlayment to the flooring first, and then use the Show Tape to adhere the Lonsafe to the substrate. This will provide a floor with additional comfort under foot. Note that the Lonsafe is only intended for foot traffic, and any point loading could permanently indent the Lonsafe. For temporary show floors this may only be an issue if the flooring will be reused or if items will be repositioned during the show. Consideration should also be made for persons wearing shoes with extremely high point loads, like high heels. It should also be noted that Lonsafe is nominally 71 in. (180.3 cm) wide, while Lonseal’s flooring is a minimum of 72 in. wide (182.9 cm). If interested in this type of use, please contact Lonseal’s Technical Department for more information.