

INSTALLATION INSTRUCTIONS FOR SYNTHESIS & ECLIPSE

ACCEPTABLE SURFACES | REQUIREMENTS AND PREPARATION

- Fully-cured concrete
 - Over In-floor heating that does not have gypsum based topping, leveling or patching compound
 - Subfloor temperature should not be less than 65 degrees 24 hours before, during, or after installation
 - Wood underlayment such as APA Underlayment grade plywood (minimum 1/4" thickness) is the preferred underlayment
 - Exterior grade plywood (Group 1 CC type)
 - Vinyl composition tile (limited to one layer) and stripped of any waxes, and fully bonded
 - Properly leveled embossed sheet goods that are securely bonded and fully adhered
 - Cement terrazzo or ceramic tile that has been leveled and the surface properly prepared such as lightly sanded and de-glossed
 - Bared steel, aluminum
 - Non-porous surfaces
- PLEASE NOTE:** *If using outdoors, we recommend that it be in rug form only. This product is UV stabilized but may fade or change colors in certain regions of the country or certain climates. There is no warranty against fading or color loss.*

NONACCEPTABLE SURFACES

- Presswood
- Any types of preservatives
- Any types of treated plywoods
- Chipboard, flake board, particleboard
- Gypsum-based toppings, leveling and patching compounds
- Concrete containing fly ash

GENERAL SURFACE RECOMMENDATIONS

- Supporting surfaces shall be clean and free of dust, oil, grease, tar, or other loose substance that may prevent or reduce adhesion
- Test concrete slabs for excess moisture they should not exceed 3 lbs. per 1000 sq. ft. per 24 hours as measured by anhydrous calcium chloride test. If there is any question as to excess moisture, seal the floor with 1185 Moisture Emission Sealer.

ADHESIVES AND APPLICATION

For Indoor Installation: Use adhesive indoor adhesive 2 Gallon Container (covers 260-320 square feet)

- Trowel Size: 1/16" X 1/16" X 1/16" Applied to smooth surfaces or
- Trowel Size: 3/32" x 3/32" x 3/32" Applied to rough surfaces

For Contract Installation: Use Contract Adhesive 2 Gallon Container (covers 260-320 square feet)

- Trowel Size: 3/32" X 3/32" X 3/32"
 1. Do not apply adhesive when substrate temperature is below 65° F, 24 hours before, during and after installation.
 2. Use recommended notched trowel.
 3. Using the recommended trowel size ensures that minimum 90% of adhesive transfer to the floorcovering backing while maintaining full coverage on the substrate.
PLEASE NOTE: *Do not use smaller trowel sizes.*
 4. When installing over porous substrates there is no need to allow open time. Allow the adhesive to tack no more than 25 minutes based on 75°F and 50% relative humidity.
 5. Open time, when installing over nonporous substrates, is 30 minutes.
 6. Based on 75 degrees F and 50% relative humidity. Higher temperatures and less humidity shorten the open time.
 7. Place flooring into adhesive so as to minimize air bubbles and wrinkles.
 8. Roll flooring surface (75-100 lb roller) across width and length to break down adhesive ridges and ensure removal of trapped air. Wait 1-2 hours then repeat rolling procedure.
 9. Promptly clean adhesive smudges from the flooring surface. Use wet cloth when fresh or mineral spirits when dried.

SEAMS

- Seam Bond Kit SSB #1
- Toil Seam Weld or
- Latex seam sealer compatible with PVC flooring
 1. Double cut overlapped strips of flooring to form the two seam edges
 2. Fill the plastic applicator bottle with SSB #1 Seasons Seam Sealer from the holding bottle. This level insures a more uniformly controlled flow of adhesive. Be careful not to spill adhesive on the surface of your flooring...it's best to fill the bottle over rag or piece of scrap flooring. Avoid prolonged breathing of the adhesive vapors and provide adequate ventilation.
 3. Do not separate or shift the seam.
 4. Attach the "winged-tipped" applicator nozzle to the plastic squeeze bottle. If the outlet becomes clogged while using, remove the dried adhesive from the outlet with a small thin wire. *(Under no circumstances should excessive pressure be applied to the squeeze bottle as a means of unclogging the outlet hole or holes.)*
 5. Starting at one end of the seam, insert the outlet wing on the tip of the bottle into the seam and gently squeeze the bottle, moving it slowly along the seam. The wing momentarily opens the material permitting the flow into the seam. A proper application will leave a 1/32"-wide bead of adhesive between the edges of the seam.
 6. **DO NOT TOP SEAL!!** Be sure to not allow the seam sealer to be over applied and also keep off of the surface of the material. If the sealer is coming up from the seam and spreading onto the surface, too much sealer is being applied. Remove any excess with a ketone-based solvent cleaner. Blot the area to be cleaned. Do not rub. Although the seam sealer is fast drying, it is recommended that no traffic be allowed on the seam for two hours.
 7. When finished sealing, pour the unused adhesive back into the adhesive's original container, and clean the applicator bottle and nozzle with ketone thinner. A small wire or straight pin can be used to keep the nozzle open.
 8. For loose lay installation seams: use a fabric-reinforcing strip (tape). Adhere to back of the seam after following steps 1-7.

INSTALLATION PROCEDURES

1. Acclimate flooring to room temperature and humidity levels. Make installation length cuts 2-4 inches longer than the area requires. Allow these cuts to lay out, unrolled for 24 hours for sufficient acclimation period.
2. Side seaming is recommended. When laying out the installation avoid end cuts, cross, or butt seams.
3. Run the flooring strips the same direction; do not reverse consecutive strips.
4. Lay the strip of flooring onto the adhesive and overlapping the edges of adjoining strips of flooring by 1"-2".
5. Double cut the overlapped edges of adjoining strips to form the two seam edges.
6. Pull back the two seam edges. This is the area that was left without a coat of adhesive. Apply adhesive to the floor underneath the length of the seam.
7. Seam bond the edges, described in seaming section.
8. After setting the seam, roll the surface of the two adjoining strips. Repeat rolling 1-2 hours later if high humidity level is slowing the adhesive drying rate.

PROTECTION

Do not allow traffic or furnishings for 72 hours on commercial and heavy traffic applications and 24 hours on residential applications.

STAIRS

Synthesis has been used successfully on stairs. Both adhesives that we sell, mentioned in the Adhesives and Application section above will work for stairs. However, application will take time to set up and cure, so some means of keeping the material 'in' the glue is necessary. Here are some hints to help make stairs easier to handle.

- Material becomes much more pliable when warm
- Material can be pre-formed to the shape of the stair
- Do not use contact cement
- Johnsonite produces a 'double face' tape made for vinyl stair nosing. It is compatible with the plasticizers in PVC backings. It is available in various widths. Johnsonite's name for this tape is 'Power Tape'. It provides an instant 'grab' and a permanent hold. This product is available from your local Johnsonite supplier.