



INSTALLATION INSTRUCTIONS

MIPOLAM BIOCONTROL ESD+ AND EL5

These instructions are specifically written for the installation of the following products:

Product	Size	Installation direction	Seams Welded
Mipolam Biocontrol ESD+	6' 6" wide	Same	CR 40
Mipolam Biocontrol EL5	6' 6" wide	Same	CR 40
Welding Rod	4mm		CR 40

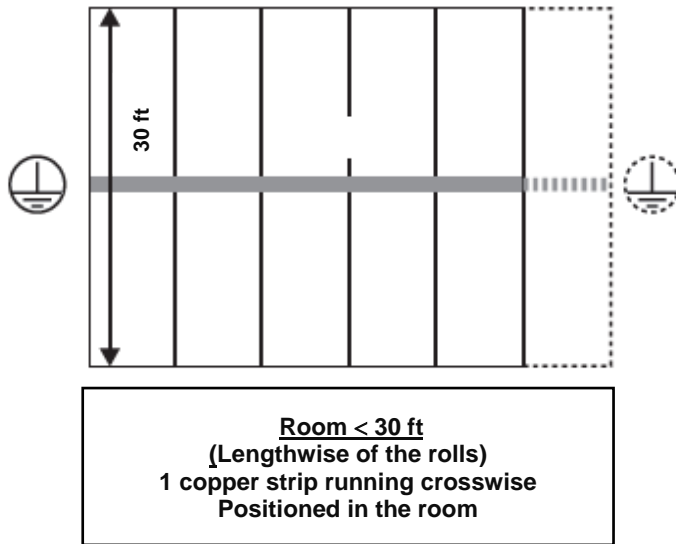
Important Note: Before installing, refer to Gerflor USA Installation Handbook for acclimation, job site conditions, subfloor prep, and other general installation recommendations.

1. GENERAL INFORMATION

- 1.1. Gerflor flooring products are formulated to withstand high moisture conditions. To perform as designed, the concrete must be properly prepared to create a contaminate free and porous substrate.
- 1.2. Gerflor flooring products are not designed to withstand hydrostatic or osmotic pressure.
- 1.3. *The guidelines offered within this document are not intended to be all inclusive. Only qualified, professional flooring technicians experienced in the field of resilient flooring should proceed with this installation system.*
- 1.4. It is recommended to mechanically prepare the concrete via grinding or bead blasting the surface to achieve a CSP 1+, clean and porous substrate.
- 1.5. Moisture and pH testing must be performed in accordance with ASTM F710-22.
- 1.6. Adhesive bond tests are recommended to ensure adequate bonding to the substrate.
- 1.7. Do not install material that has visible defects or damage. A contractor that installs material that has visible defects or damage assumes responsibility for the damaged material.

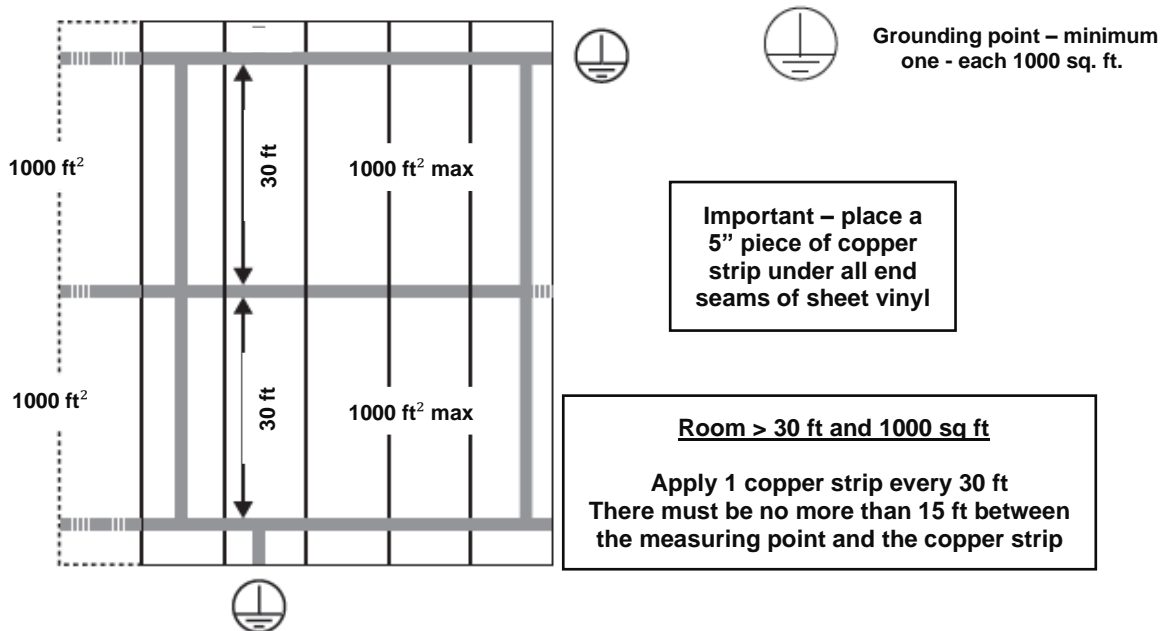
2. COPPER STRIP LAYOUT

- 2.1. Copper strip come in rolls of 656 linear feet.
- 2.2. The copper strip is 3/8" wide and 0.003" thick.
- 2.3. Layout copper strip and coordinate grounding with a certified electrician.
- 2.4. **For rooms less than 1000 sq. ft. and the length of the rolls are less than 30 ft.** use one copper strip perpendicular beneath all sheets of vinyl. Allow extra copper at wall for proper grounding. Coordinate grounding point with electrician.
- 2.5. **For rooms less than 1000 sq. ft. and the length of the rolls are longer than 30 ft.** lay copper strips beneath (30 feet apart) and perpendicular to the sheets. Lay copper strips on both sides that connect to create a "box" of copper around the room. Allow extra copper at wall for proper grounding. Coordinate grounding point with electrician.



2.6. For rooms > 1000 sq. ft., install a copper strip around the perimeter of the room and create 1000 sq. ft grids of copper strip with no more than 30 ft. apart in the width. Provide additional copper at walls for proper grounding at each location.

IMPORTANT: THE FURTHEST GROUNDING POINT FROM A CONTINUOUS COPPER STRIP MUST BE NO MORE THAN 15 FEET

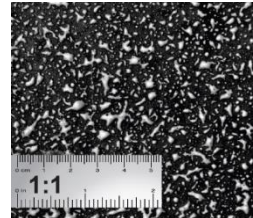


3. LAYOUT AND INSTALLATION

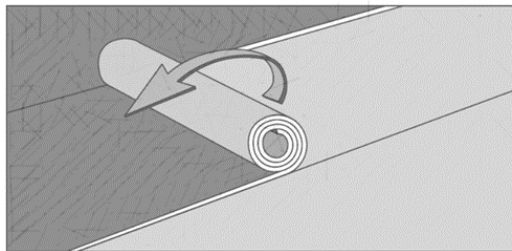
- 3.1. Mark the center starting line.
- 3.2. Follow roll sequence numbers.
- 3.3. Unroll the first length of material along this chalk line and then work progressively outward, leaving a 1/4" gap between the sheets and allow the material to relax for a minimum of 16 hours.
- 3.4. Seaming should be kept to a minimum and avoid cross seams as much as possible. Place seams in areas exposed to the least amount of traffic.
- 3.5. Reposition sheets with no more than a 1/32" gap between them to allow for proper heat welding. **Wider gaps will compromise the integrity of the weld.**
- 3.6. In most cases, factory edges can be used for side seams. Sheets that may have minor edge damage or distortion must be trimmed and removed prior to installation of the sheets.
- 3.7. Leave material 4"-6" longer on each end for trimming after placement. *Do not net cut material to the final trim until being placed into the adhesive.*
- 3.8. Before applying the adhesive, ensure the gap between the sheets is uniform and no greater than 1/32" along the entire length. Overlap edges and underscribe if necessary, to achieve consistent seam gap. This gap will act as a guide for the groover when preparing to heat weld.

4. INSTALLING USING GERFIX SPRAY ADHESIVE

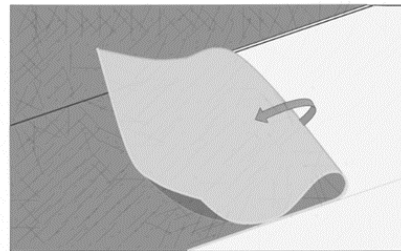
- 4.1. Always refer to the **Gerfix Spray Adhesive Technical Data Sheet**
- 4.2. Recommended spray pattern: (150 to 185 sq. ft. per can)
- 4.3. Ensure substrate, flooring, and surrounding areas are clean and dust free.
- 4.4. Wipe your hand across the surface to verify for dust.
- 4.5. If dust transfers, the substrate is not clean.
- 4.6. Damp-mop substrate if dust is present.
- 4.7. Protect from overspray with a spray shield, drop cloths, paper, or masking tape,
- 4.8. Starting from the center line and working outward, the sheets (width) halfway and apply the adhesive to the subfloor.
- 4.9. Never pre-cut material to final trim until it is placed into the adhesive. Leave material 2"-3" longer for trimming after placement.



Roll back method



Fold back method



- 4.10. Shake aerosol can well. Remove white cap.

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- 4.11. To ensure uniform adhesion of the entire surface, spray a workable amount of adhesive at one time.
- 4.12. Stand straight up to spray. Hold can upside down, approximately 20-30 inches horizontally from the substrate, aim at floor and press tip with finger.
- 4.13. Walk right to left smoothly to achieve results as seen on photo.
- 4.14. Adhesive should spray out in a wide mist and fall like snow.
- 4.15. Spraying in a sweeping motion may result in an inconsistent spray pattern.
- 4.16. Excess buildup or inconsistent spray pattern on substrate may telegraph through the flooring.
- 4.17. Avoid excessive application of the adhesive.
- 4.18. To ensure optimal spray pattern, remove any adhesive build up that may occur during the application process.
- 4.19. If overspray occurs, it may be removed with a damp cloth while the adhesive is still wet.




- 4.20. **Install copper strip into the tacky adhesive *just before installing the flooring into the adhesive.* Make sure there is no adhesive on top of the copper strip.**

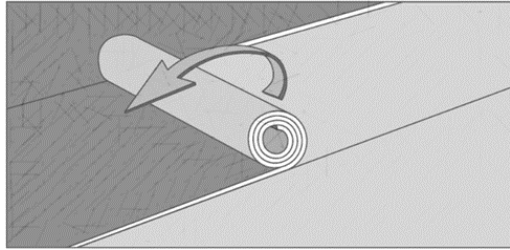


- 4.21. Once the adhesive is dry to the touch, immediately install the flooring. While open, ensure that adhesive is not contaminated by dust.
- 4.22. Roll flooring with a 3 section 100-lbs roller within 1 hour after installation to complete the bonding process.
- 4.23. Always roll seams, at the walls, and under toe kicks with a hand roller to ensure 100% transfer of adhesive.
- 4.24. After rolling, the floor is ready for all access.
- 4.25. Flooring may be heat-welded 1 hour after installation.
- 4.26. Continue laying sheets by keeping the edges spaced no greater than 1/32", trimming each side with a straight edge or scribing when needed. The goal is to produce a uniform 1/32" spaced seam for welding.
- 4.27. The width of the gap should be even and may be less than 1/32" depending on the guide of the groover to be used.
- 4.28. During the installation, always double check the flooring for bubbles with the lights turned on and off.
- 4.29. **Floor is open to all traffic immediately after installation.**

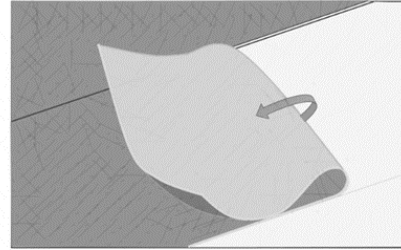
5. INSTALLING USING GERFIX TPS+ ACRYLIC ADHESIVE

- 5.1. Always refer to the **Gerfix TPS+ Adhesive Technical data Sheet**
- 5.2. Recommended trowel size is 1/32" x 1/16" x 1/32", covering from 170 to 220 sq. ft. per US gallon. 
- 5.3. Starting from the center line and working outward, fold back or roll back the sheets (width) halfway and apply the adhesive to the subfloor.

Roll back method



Fold back method



- 5.4. Never pre-cut material to final trim until it is placed into the adhesive. Leave material 2"-3" longer for trimming after placement.
- 5.5. To ensure uniform adhesion of the entire surface, apply a workable amount of adhesive at one time.
- 5.6. Maintain a uniform spread rate. Replace trowel (or trowel blade) with every pail used.
- 5.7. Immediately after troweling the adhesive onto the substrate, use a medium napped paint roller saturated with adhesive to flatten out visible trowel marks and even out the adhesive. **A double arm roller frame is recommended to ensure an even coat of adhesive.**
- 5.8. Once the adhesive is applied, fold back or roll back the flooring into the still wet adhesive for **4"-6"**. This will ease the fold-back or roll back of the second half and it will help avoid an overlap of the glue-line. **Should this method not be followed, the glue-line mark may telegraph through the flooring.**
- 5.9. "Open time" of the adhesive is dependent upon porosity of the substrate, temperature, and humidity. It is important that the installers familiarize themselves with the adhesive before starting the installation.

<i>Application Characteristics over Porous Substrates (Non-Porous-see note below)</i>		
	<i>Open Time*</i>	<i>Working Time**</i>
Gerflor ESD Floorings	20 to 40 minutes (to reach a tacky state***)	Up to 1.5 hours

* **Open Time:** is the waiting time required before installing flooring into the adhesive.
 ** **Working time:** is the window of time for the adhesive to accept flooring.
 *** **Tacky:** When adhesive starts to become translucent and there is light transfer to the fingers when slightly touched

Note: For Non-Porous substrates such as metal or existing flooring, let the adhesive dry completely, with no transfer to the fingers when touched, then immediately install the flooring and roll with a 100lb. roller.

- 5.10. When installing, always work to have complete sheets glued at the end of the day.




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- 5.11. To reduce the risk of bubbles, the roll back method is the most recommended method of installation.
- 5.12. **Install copper strip into the tacky adhesive *just before installing the flooring into the adhesive. Make sure there is no adhesive on top of the copper strip.***
- 5.13. By keeping the roll tight and maintaining constant pressure while unrolling into the adhesive, the risk for bubbles will be minimal.
- 5.14. The fold back method is acceptable, but care must be taken to not unfold it back too quickly.
- 5.15. Once flooring is placed into the adhesive, immediately roll thoroughly with a 3 section 100-lbs roller in both directions.
- 5.16. Periodically, lift the edge of a sheet to confirm transfer of adhesive to the back of the flooring. There must be adhesive transfer for the flooring to be adequately secured to the substrate.
- 5.17. Always roll seams, at the walls, and under toe kicks with a hand roller to ensure 100% transfer of adhesive.
- 5.18. Continue laying sheets by keeping the edges spaced 1/32", trimming each side with a straight edge or scribing when needed. The goal is to produce a uniform 1/32" spaced seam for welding.
- 5.19. The width of the gap has to be even and may be less than 1/32" depending on the guide of the groover used.
- 5.20. During the installation, with the lights on and off, always double check the flooring for bubbles with portable, ambient, and/or fixed lighting.
- 5.21. Heat welding can proceed 24 hours after the installation
- 5.22. **Avoid adhesive displacement by prohibiting traffic for a period of 24 hours and 72 hours for rolling loads.**

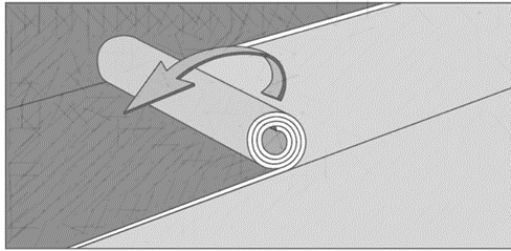
6. INSTALLING USING GERFIX 196 HYBRID MULTI-PURPOSE ADHESIVE

- **GERFIX 196 IS CHEMICALLY REACTIVE. ONCE MIXED, THE POT LIFE IN THE BUCKET IS 2 HOURS; AFTER SUCH TIME, DISCARD ANY REMAINING ADHESIVE**
- **Trowel the adhesive onto the substrate using a 1/32" x 1/16" x 1/32" U notched trowel. Coverage of 425 – 550 sq. ft. per Pail.**
- **It is imperative to use the proper trowel as well as maintaining the proper notch size over the course of the entire floor.**
- **Prepare concrete per ASTM F-710. Concrete should be mechanically prepared to a CSP 1+ to ensure a porous and contaminate free substrate.**
- **Inadequate application of adhesive will void the warranty.**
- **Use mineral spirits to remove wet or dry adhesive.**

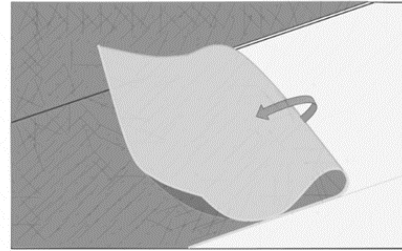
- 6.1. Always refer to the **Gerfix 196 Adhesive Technical Data Sheet**.
- 6.2. Follow the guidelines indicated on the Technical Data Sheet.
- 6.3. Recommended trowel size is 1/32" x 1/16" x 1/32", covering from 170 to 220 sq. ft. per US gallon. 
- 6.4. Mix 2-part acrylic adhesive part A and part B for 2 to 3 minutes and is a consistent color.
- 6.5. Starting from the center line and working outward, fold back or roll back the sheets (width) halfway and apply the adhesive to the subfloor.

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Roll back method



Fold back method



- 6.6. To ensure uniform adhesion of the entire surface, apply a workable amount of adhesive at one time.
- 6.7. Maintain a uniform spread rate. Replace trowel (or trowel blade) with every pail used.
- 6.8. Immediately after troweling the adhesive onto the concrete use a medium napped paint roller saturated with adhesive to flatten out visible trowel marks and even out the adhesive. A double arm roller frame is recommended to ensure an even coat of adhesive.
- 6.9. "Open time" of the adhesive is dependent upon porosity of the substrate, temperature, and humidity. It is important that the installers familiarize themselves with the adhesive before starting the installation. Insufficient open time for this adhesive will cause bubbling. Exceeding proper open time will result in poor adhesion.

<i>Application Characteristics over Porous Substrates & Non-Porous Substrates</i>		
	<i>Open Time*</i>	<i>Working Time**</i>
Gerflor Homogeneous & Heterogeneous Floorings	20 to 30 minutes (to reach a tacky state***)	1 to 3 hours

* **Open Time:** is the wait time required before installing flooring into the adhesive.

** **Working time:** is the "window" of time for the adhesive to accept flooring.

*** **Tacky:** When the adhesive starts to become translucent and there is light transfer to the fingers when slightly touched

NOTE: Allow the adhesive to transition from the wet stage to a tacky-dry stage (no transfer to fingers, when lightly touched) then immediately install the install copper strip into the tacky adhesive into the adhesive making sure there is no adhesive on top of the copper strip, then install flooring and roll with a 100lb. roller.

- 6.10. Maintain a uniform spread rate. Replace trowel (or trowel blade) with every pail used.
- 6.11. When installing, always work to have complete sheets glued at the end of the day.
- 6.12. To reduce the risk of bubbles, the roll back method is the most recommended method of installation.
- 6.13. By keeping the roll tight and maintaining constant pressure while unrolling into the adhesive, the risk for bubbles will be minimal.
- 6.14. **Install copper strip into the tacky adhesive *just before installing the flooring* into the adhesive. Make sure there is no adhesive on top of the copper strip.**
- 6.15. The fold back method is acceptable, but care must be taken to not unfold it back too quickly.

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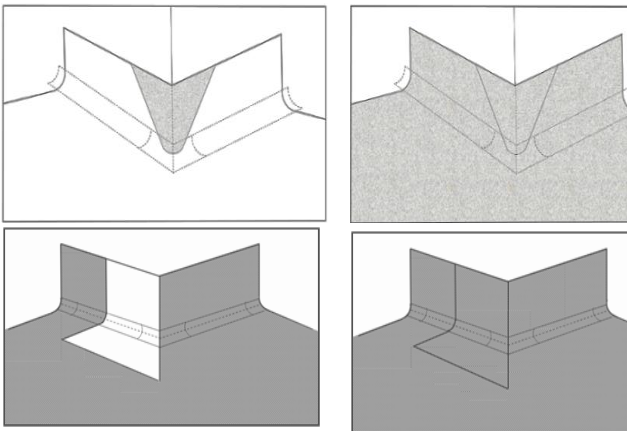
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- 6.16. Once flooring is placed into the adhesive, immediately roll thoroughly with a 3 section 100-lbs steel roller in both directions.
- 6.17. Always roll seams, at the walls, and under toe kicks with a hand roller to ensure 100% transfer of adhesive.
- 6.18. Care must be taken to avoid flopping the sheets into the adhesive as this may cause air to become entrapped
- 6.19. Keep on installing sheets by keeping the edges spaced 1/32", trimming each side with a straight edge or scribing. The goal is to produce a uniform 1/32" spaced seam for welding.
- 6.20. Using a 100-lbs sectional steel roller, roll the flooring in the width first and then the length to ensure adhesive transfer and to evacuate all air that can lead to bubbles. Optimally there should be an individual tasked solely with this responsibility
- 6.21. Continually check the flooring for bubbles. To verify there are no bubbles, look down and across the flooring from both a standing and prone position with the lights on and off. The use of a light source at floor level can be helpful in finding any air pockets or bubbles.
- 6.22. Heat welding can proceed after **24 hours from time of installation**
- 6.23. **No heavy foot traffic for 6-12 hours after installation, no heavy rolling loads for 24 hours and no heavy point loads for 72 hours.**
- 6.24. Use mineral spirits to remove fresh or dried adhesive from the surface of the flooring
- 6.25. Following the above steps is of the utmost importance for a successful installation that will resist high moisture levels and be serviceable over the life of the floor.

7. HEAT WELDING – Refer to “Heat Welding Gerflor Vinyl Products” Document

8. FLASHCOVING

NOTE: For best results with flash coving, the walls should have a spacing no greater than 1/2" from the subfloor. Ensure all surfaces to be installed on are sound, smooth, and free of contaminates.

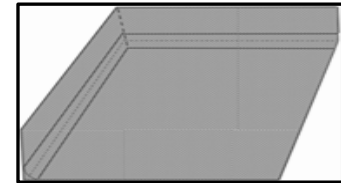
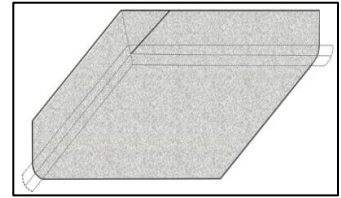
- 8.1. Metal cove cap is preferred to vinyl cap.
 - 8.2. Miter all corners cleanly. Outside corners should be cut and shaped from a solid piece of aluminum cap.
 - 8.3. Affix cove stick securely to the floor and wall. Contact tape, staples, and contact cement are commonly used for this.
 - 8.4. The flooring material can be either pattern scribed or cut in by hand.
 - 8.5. Outside corners can be formed using the “butterfly” method.
 - 8.6. While installing the outside corners, it may be necessary to heat in order to shape the material.
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- 8.1. Always install the outside corner piece first.
 - 8.2. The “boot” outside corner method is also acceptable along with border coving, or picture framing to create accent borders.



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- 8.3. Inside corners can be cut at a 45° angle on the wall or with a 90° vertical seam in the corner
- 8.4. Corners and straight walls are adhered with TPS+, contact tape, contact cement, or other suitable acrylic pressure sensitive adhesive.
- 8.5. On porous walls, it will often be necessary to apply two coats.
- 8.6. Coat wall entirely and overlapping past the cove stick and onto the substrate approximately 1"-2".
- 8.7. **All vertical, inside corner, and outside corner seams must be heat welded.**



9. ONCE THE INSTALLATION IS COMPLETED

- 9.1. Perform a visual inspection of the project.
- 9.2. Verify every welded seam.
- 9.3. Repair every imperfection before leaving the project.
- 9.4. Make sure that every vertical obstacle such as doorframes are well trimmed and sealed with an acrylic, or equivalent sealant product. **ColorRite** caulk now available for all Gerflor products.
- 9.5. To maximize the aesthetic appearance and serviceability of the newly installed flooring, provide your customer with a copy of the **Gerflor USA Maintenance Instructions**.