INSTALLATION INSTRUCTIONS

GERFLOR BIOCONTROL ESD FLOORING

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 2022 Gerflor USA Installation Handbook for acclimation, job site conditions, subfloor prep, and other general installation recommendations.**

1. GENERAL INFORMATION

1.1. Gerflor ESD 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 ESD 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 F710-17.

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 FOR SHEET VINYL

NOTE: **THE INSTALLATION OF THE COPPER STRIP IS RELATED TO THE TYPE OF ADHESIVE USED FOR THE PROJECT. SEE RECOMMENDED ADHESIVE INSTRUCTIONS BELOW FOR MORE DETAILS.**

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.

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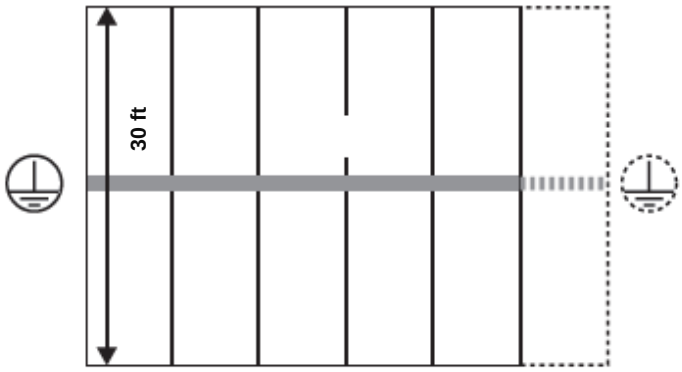
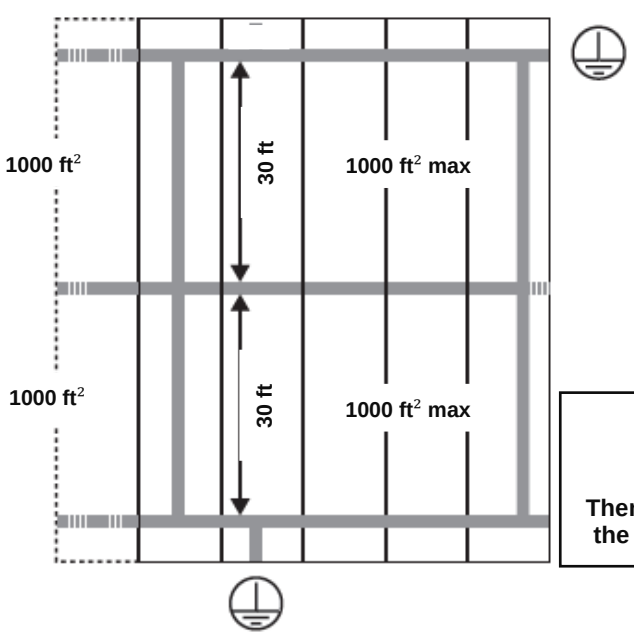


Room < 30 ft
(Lengthwise of the rolls)
1 copper strip running crosswise
Positioned in the room

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. Allow extra copper at walls for proper grounding at each location. (There should be**

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



Grounding point – minimum one - each 1000 sq. ft.

Important – place 5" piece of copper strip under all end seams of sheet vinyl

Room > 30 ft and 1000 sq ft

Apply 1 copper strip every 30 ft
There must be no more than 15 ft between the measuring point and the copper strip

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3. DRY LAY OF SHEETGOOD

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 at least 16-24 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.

4. INSTALLATION OF SHEETGOODS

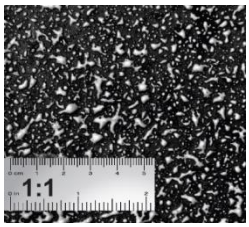
4.1. Reposition sheets to allow for no more than a $^{1}/_{32}$” gap between them to allow for proper heat welding***. Wider gaps will compromise the integrity of the weld.***

4.2. 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.

4.3. Leave material 4”-6” longer on each end for trimming after placement. *Do not net cut material to the final trim until the application of the adhesive.*

4.4. Before applying the adhesive, ensure gap between the sheets to a uniform 1/32” along the entire length. Overlap edges and underscribe if necessary, to achive consistent seam gap. This gap will act as a guide for the groover when preparing to heat weld.

5. INSTALLING ESD FLOORING USING GERFIX SPRAY ADHESIVE



5.1. Always refer to the **Gerfix Spray Adhesive Technical Data Sheet**

5.2. Recommended spray pattern: (150 to 185 sq. ft. per can)

5.3. Ensure substrate, flooring, and surrounding areas are clean and dust free.

5.4. Wipe hand across surface to verify for dust.

5.5. If dust transfers, substrate is not clean.

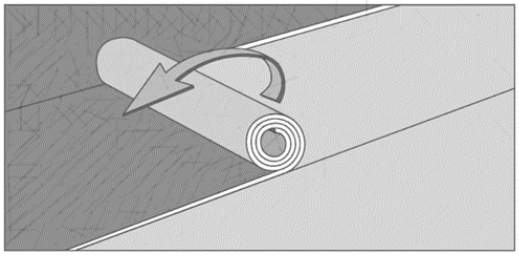
5.6. Damp-mop substrate if dust is present.

5.7. Protect from overspray with a spray shield, drop cloths, paper, or masking tape,

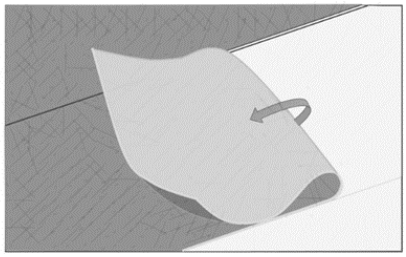
5.8. Starting from the center line and working outward, the sheets (width) halfway and apply the adhesive to the subfloor.

5.9. Never pre-cut material to final trim until it is applied into the adhesive. Leave material 2”-3” longer for trimming after placement.

Roll back method



Fold back method



5.10. Shake aerosol can well. Remove white cap.

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5.11. To ensure uniform adhesion of the entire surface, spray a workable amount of adhesive at one time.

5.12. 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.

5.13. Walk right to left smoothly to achieve results as seen on photo.

5.14. Adhesive should spray out in a wide mist and fall like snow.

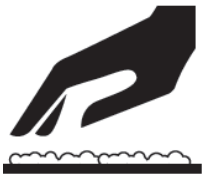
5.15. Spraying in a sweeping motion may result in an inconsistent spray pattern.

5.16. Excess buildup or inconsistent spray pattern on substrate may cause telegraphing.

5.17. Avoid extremely heavy application.

5.18. To ensure optimal spray pattern, remove any adhesive build up that may occur during the application process.

5.19. If overspray occurs, it may be removed with a damp cloth while the adhesive is still wet.



5.20. **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.**

5.21. Once the adhesive is dry to the touch, immediately install the flooring. While open, ensure that adhesive is not contaminated by dust.

5.22. Roll flooring with a 3 section 100-lbs roller within 1 hour after installation to complete the bonding process.

5.23. Always roll seams, at the walls, and under toe kicks with a hand roller to ensure 100% transfer of adhesive.

5.24. After rolling, the floor is ready for all access.

5.25. Flooring may be heat-welded 1 hour after installation.

5.26. 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.

5.27. The width of the gap has to be even and may be less than 1/32” depending on the guide of the groover used.

5.28. During the installation, always double check the flooring for bubbles with the lights on and off.

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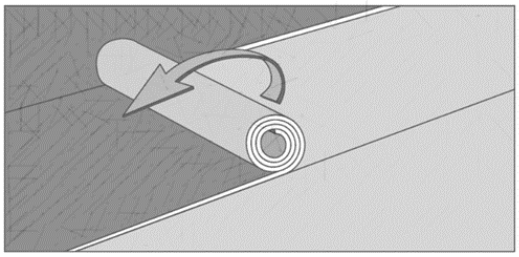
6. INSTALLING ESD SHEETGOODS USING GERFIX TPS+ ACRYLIC ADHESIVE

6.1. Always refer to the **Gerfix TPS+ Adhesive Technical data Sheet**

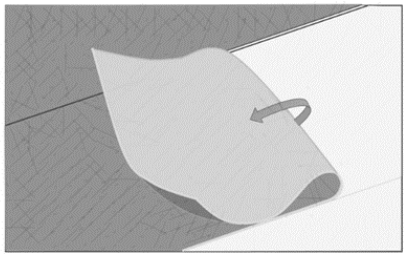
6.2. Recommended trowel size is 1/32" x 1/16" x 1/32", covering from 170 to 220 sq. ft. per US gallon.

6.3. 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



6.4. Never pre-cut material to final trim until it is applied into the adhesive. Leave material 2"-3" longer for trimming after placement.

6.5. To ensure uniform adhesion of the entire surface, apply a workable amount of adhesive at one time.

6.6. Maintain a uniform spread rate. Replace trowel (or trowel blade) with every pail used.

6.7. 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.**

6.8. 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 will telegraph through the flooring.**

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 installations.

Application Characteristics over Porous Substrates (Non-Porous-see note below)		
	Open Time*	***Working Time*** **
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.

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

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

Note: For *Non-Porous* substrates let the adhesive dry completely, with NO transfer to the fingers when touched, then immediately install the flooring and roll with a 100lb. roller.

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

6.11. To reduce the risk of bubbles, the roll back method is the most recommended method of installation.

6.12. **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.**

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. The fold back method is acceptable, but care must be taken to not unfold it back too quickly.

6.15. Once flooring is placed into the adhesive, immediately roll thoroughly with a 3 section 100-lbs roller in both directions.

6.16. 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.

6.17. Always roll seams, at the walls, and under toe kicks with a hand roller to ensure 100% transfer of adhesive.

6.18. 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.

6.19. The width of the gap has to be even and may be less than 1/32” depending on the guide of the groover used.

6.20. During the installation, with the lights on and off, always double check the flooring for bubbles with portable, ambient, and/or fixed lighting.

6.21. **Avoid adhesive displacement by prohibiting traffic for a period of 24 hours and 72 hours for rolling loads.**

7. HEAT WELDING - REFER TO THE “HEAT WELDING GERFLOR VINYL PRODUCTS” DOCUMENT

8. FLASHCOVING BIOCONTROL ESD FLOORING

NOTE: For better results with flash coving, the walls must be built sound and solid down to the subfloor. There must not be any voids present at the bottom of the wall. Ensure all surfaces to be installed on are smooth and free of contaminates.

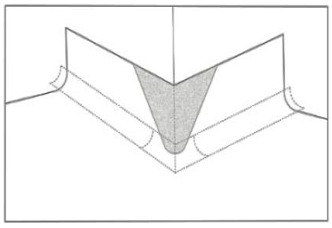
8.1. Metal capping is preferred to vinyl cap.

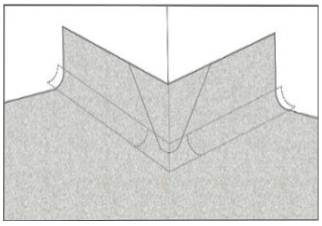
8.2. Miter all corners cleanly. Outside corners should be cut and shaped from a solid piece of aluminum cap.

8.3. Affix cove stick securely to the floor and wall. Contact tape, staples, and contact cement are commonly used for this.

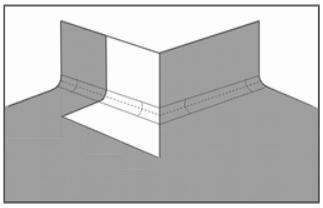
8.4. The flooring material can be either pattern scribed or cut in by hand.

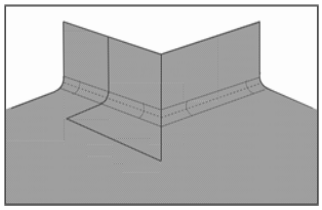
8.5. Outside corners can be formed using the “butterfly” method.





8.6. While installing the outside corners, it may be necessary to heat in order to shape the material.

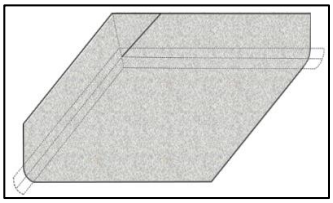




8.7. Always install the outside corner piece first.

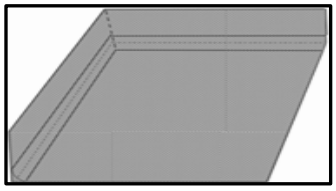
8.8. The “boot” outside corner method is also acceptable along with border coving, or picture framing to create accent borders.

8.9. Inside corners can be cut at a 45° angle on the wall or with a 90° vertical seam in the corner



8.10. Corners and straight walls are adhered with a Gerfix 125, TPS+, contact tape, contact cement, or other suitable acrylic pressure sensitive adhesive.

8.11. On dusty walls, it will often be necessary to apply two coats.



8.12. Coat wall entirely and overlap past the cove stick and onto the substrate approximately 1”-2”.

8.13. **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.**