Medi-Flex TRUE™
Sheet Rubber

INSTALLATION

160 South Industrial Blvd.
Calhoun, GA. 30701
MohawkGroup.com

Technical Services Department
508 East Morris St.
Dalton, GA 30721
800.833.6954
product_tech@mohawkind.com

Site Conditions

1. Store the flooring and adhesive in the installation area.

2. The temperature must be kept between 18°C (65°F) and 24°C (75°F) for 48 hours before, during and after installation.

3. Both flooring and adhesive must be acclimatized 48 hours prior to installation. Flooring should be removed from the pallet 24 hours prior to installation and stored standing up with at least 10 cm (4 inches) of airflow around the rolls. Do not leave rolls close to heat or cooling ducts or in direct sunlight.

4. When unpacking the flooring, some of them could have an inconsistent gloss appearance. This effect occurs during the manufacturing and packaging process and will disappear when the initial maintenance procedure is performed.

5. Avoid placing flooring in direct sunlight (windows or doors) before installation, as it could create shading.

6. Flooring products with arrows on the back must be installed with the arrows all pointing in the same direction.

7. For any problem related to chemical abatement or high humidity refer to the "Remediation Systems" document.

Moisture Testing

1. Follow ASTM F 710 "Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring". This includes determining Relative Humidity and pH Levels, as per the ASTM specifications listed below:

   a. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 80% RH for AD-777 and 85% RH for AD-535.

   b. ASTM F 710, pH levels (test procedure 5.3.1). The readings should be between 8 and 10.

2. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).

3. Ensure Relative Humidity and pH tests have all been conducted according to the latest ASTM version, and measurements meet manufacturer's specifications.

4. For all grade installations (on, above or below), it is the flooring contractor's responsibility to ascertain that there is not too much moisture in the concrete and that it will not increase at a future date above the recommended levels. Mohawk Group will not be responsible for hydrostatic pressure which may occur in the future.

Subfloor Preparation

1. Porous Surfaces: For construction-grade plywood, cementitious underlayments, dry concrete that is above, on or below grade, refer to ASTM F 1482 "Standard Practice for Installation and Preparation of Panel-Type Underlayment to Receive Resilient Flooring" for general guidelines.

2. Non-Porous Surfaces: For terrazzo, ceramic tile, metal, existing fully adhered non-cushion backed resilient on all grade levels except existing tile below grade, refer to ASTM F 710 for general guidelines.

3. Concrete subfloor must be smooth and flat, as imperfections in the subfloor may show through the finished flooring. All cracks, voids and undulations must be repaired, prior to flooring installation, with a high strength Portland cement based patching material.

4. Saw cuts must be cleaned carefully and filled with cement based compound. Flooring must not be installed over expansion joints.

5. All surfaces must be clean, dry and free of dust, grease, paint, oil, sealers and curing compounds or any other foreign material that may interfere with proper adhesion.

6. Do not use chemical adhesive removal products (chemical abatement products); their use will void the Mohawk Group's adhesive system warranty.

7. Do not use dry sweep oil-based material, as the oil in the sweeping compound will interfere with the adhesion of the material to the concrete.

8. For detailed instructions, refer to the Floor Preparation document available on our website at www.mohawkgroup.com.

Adhesive Systems

1. The use of the proper adhesive is critical for a successful end result. Mohawk Group will only guarantee its flooring products if AD-777 or AD-535 adhesives are used.

2. AD-777 is a water-based acrylic adhesive for general use; it can be used as a wet-set for porous surfaces or as a pressure-sensitive for both porous and non-porous surfaces; for demanding applications such as heavy rolling load traffic, hospital operating rooms, AD-535 must be used.

3. Protect from freezing in transit and storage.

4. Trowel specifications are written as follows: depth / width / spacing.

5. Use kneepads or work off the flooring whenever possible.

6. Clean spills, oozing and tools promptly using soapy water, ethyl alcohol or isopropyl alcohol.

7. Do not reuse container. Dispose of container and adhesive in accordance with federal, provincial/state and local waste disposal regulations.

8. Do not rework trowel. Always use a trowel in good condition.

9. If there is any doubt about which adhesive to use, contact Technical Services at 800.833.6954 for additional information.

AD-777 Adhesive

1. AD-777 can be used as a wet-set or a pressure sensitive adhesive; it has a creamy color with a syrupy consistency.

2. Porous surfaces: spread adhesive with a 0.8 mm x 1.6 mm x 0.8 mm (1/32'' x 1/16'' x 1/32'') U-notch trowel. Allow 0-15 minutes open time when using as a wet-set or let dry 15-45 minutes until dry to the touch when using as a PSA. Note that after 15 minutes, positioning of the sheet may be difficult. Working time on concrete is up to 1 hour, depending on temperature and humidity.

3. Non-porous surfaces: spread adhesive with a 0.8 mm x 1.6 mm x 0.8 mm (1/32'' x 1/16'' x 1/32'') U-notch trowel. Allow 15-45 minutes open time until dry to the touch. Working time on concrete is up to 2 hours, depending on temperature and humidity.

4. Coverage: porous surfaces up to 18.6 sq. m/3.79 litres (up to 185 sq. ft. /gal.); non-porous surfaces up to 20.0 sq. m/3.79 litres (245 sq. ft. /gal.).

5. Roll the flooring in both directions prior to adhesive hardening with a 34-45 kg (75-100 lb.) sectional roller.

6. We recommend the following guidelines for traffic:

   - Up to 24 hours following installation: no traffic;

   - Between 24 and 72 hours: light traffic;

   - After 72 hours: moderate to heavy traffic.

AD-535 Adhesive

1. AD-535 is a two-part epoxy-based adhesive that is off-white when mixed.

2. AD-535 creates a very strong bond when applied to porous and non-porous surfaces.

3. Remove the lid of part A and stir using a mechanical mixer. Remove the lid of part B and pour all the content into the container of part A. Use a rubber spatula to remove everything from the container. Use a mechanical mixer to ensure proper blending, as inadequate mixing could cause bond failure.

4. Pour the entire adhesive onto the floor immediately after mixing. Do not leave the mixed adhesive in the original can; the heat generated by the chemical reaction will reduce the open time of the adhesive.

5. **Porous and non-porous surfaces**: Spread adhesive with a 0.8 mm x 1.6 mm x 0.8 mm (1/32'' x 1/16'' x 1/32'') U-notch trowel on porous and non-porous surfaces.

6. Coverage: porous surfaces up to 15 sq. m/3.79 litres (up to 160 sq. ft. /gal.); non-porous surfaces up to 18.6 sq. m/3.79 litres (up to 200 sq. ft. /gal.).

7. Curing time will vary depending on site conditions (i.e. temperature, humidity). It is still workable if it is wet and sticks to the fingers when touched. If a dry skin has formed on the surface of the adhesive, remove the adhesive and start over.

8. Roll the flooring in both directions prior to adhesive hardening with a 34-45 kg (75-100 lb.) sectional roller. Rolling must be done within 30 minutes of laying the flooring; roll again 2 to 3 hours later.

9. We recommend the following guidelines for traffic:

   - First 6 hours: no traffic;

   - 6 to 24 hours: moderate to heavy foot traffic;

   - After 24 hours: regular rolling traffic.

Installation Guidelines

1. Measure the area and cut the required amount from the roll of Medi-Flex TRUE™ Sheet Rubber. When placing along a wall, cut approximately 5-8 cm (2-3") extra to run up the wall.

2. Lay it on the floor and center it.

3. Push the first sheet against the wall and scribe the shape of the wall 13 mm (½") into the roll.

4. Using a sharp hooked knife, trim the excess scribed material from the piece.

5. Position the trimmed piece against the wall and trim 13 mm (½") from the opposite (salvage) edge using an edge trimmer or sharp knife and steel edge ruler.

6. Cut the next length.

7. Position the second length 13-25 mm (½" to 1") over the wall length at the seam and trim off 13 mm (½") from the salvage edge.

8. Repeat this procedure until there are enough pieces to install in a day.

   Note: Roll Medi-Flex TRUE™ Sheet Rubber with the finished surface exposed. If the cut rolls must be re-rolled, the top must be visible.

9. Use a blue chalk line to snap a line indicating the area where the adhesive is to be spread.

10. Spread the adhesive on the area under the first length of rubber. Follow the application instructions outlined in the Adhesive Systems section. Do not spread the adhesive outside the chalk line.

11. Lay the first length on the wet adhesive and roll to eliminate air bubbles.

12. Roll the flooring in both directions prior to adhesive hardening with a 34-45 kg (75-100 lb) sectional roller.

13. Repeat steps 9, 10, 11 and 12.

14. After rolling the second length, scribe the overlap and trim with a sharp knife and roll edges using a hand roller.

15. Repeat this process for the remainder of the installation.

16. Allow the adhesive to cure. See Curing Times section for recommendations.

Chemical Welding With Loctite Seam Sealer & Applicator

1. Do these steps as flooring is being installed.

2. Follow steps 1 to 14 of the preceding section.

3. Fold back one piece at the seam lengthwise.

4. Remove approximately 3 mm (1/8") of adhesive from the subfloor under the folded-back piece with the edge of a spatula or knife.

5. Use the Loctite U-10FL applicator to apply a bead of chemical sealer to the edge of the piece on the subfloor.

6. Roll the piece of flooring back into place and make sure that both edges are coated with seam sealer.

7. Clean off any excess sealer that has squeezed up using a damp cloth and water before the seam sealer dries. Hand-roll the seams.

8. Use a 34-45-kg (75-100 lb.) sectional roller to roll all the pieces and clean any seam sealer along the seams.

9. Apply 100 mm (4") pieces of masking tape across the seams (not lengthwise). This will help prevent any movement until the sealer has cured, approximately 24 hours.

10. Repeat the procedure until the area is completely covered.

11. Coverage: A 50 ml (1.7-fl oz.) cartridge of Loctite U-10FL covers 12.2 m (40 linear feet).

Heat Welding

1. After installation, ensure that the adhesive is fully cured. Set the depth of the mechanical groover to 2/3 of the material's gauge. Test this on a piece of scrap material. If a hand grooving tool is being used, ensure that the depth is kept consistent and the blade sharp.

2. Groove all seams with a mechanical groover. Make sure both sides of the grooves are symmetrical. Hand groove areas that are hard to reach, such as close to the walls. A grooving tool with a guide is recommended.

3. Clean all grooves and the general area of dust and debris.

4. Preheat a variable heat-welding gun to the correct temperature. We recommend that you practice welding on a scrap piece that has been grooved.

5. Cut a length of Medi-Flex TRUE™ welding rod sufficient to weld the required length plus 30 cm (12") extra.

6. Weld the seam next to the wall. Apply slight pressure to the gun to help force the melted rod into the groove. Adjust the application speed as required.

7. Do not start to trim the excess welding rod until it is completely cool.

8. Apply a mixture of one part liquid soap and ten parts water to the welding rod and 25 mm (1") either side of the flooring to help lubricate the trim plate when trimming.

9. Use a trim plate and a sharp crescent knife to remove the excess welding rod. Make the finishing trim using only the crescent knife.

10. Clean the area with a brush or vacuum.

11. Keep all traffic off the floor – see Protection and Curing Times sections.

Flash Cove Installation

1. Before proceeding, make sure the subfloor and wall are suitably prepared for the flooring installation.

2. Install the cove cap to the wall at the required height from the floor. Depending on the cap system, this can be either installed with adhesive or nails/staples.

3. Use either a pattern form or template to cut the inside and outside corner of the wall section pieces of sheet rubber.

4. Apply the cove base adhesive to both the wall and subfloor.

5. Lay the flooring onto the adhesive and form the cove at the wall intersection. Make sure no air is trapped between the sheet rubber and the adhesive.

6. Press the flooring into the cove cap.

7. Roll the entire floor with a 34-45-kg (75-100 lb.) section roller. Use a hand roller for the cove section.

8. Make any final trims and adjustments to the cove and corners then roll again.

9. The seams and edges of the inside and outside corners can be sealed using one of the following methods: heat welding, chemical welding or Color Rite caulking system. These methods can be used with both Flash Cove and Pro-Tech Cove System installations.

Pro-Tech Cove System

1. Pro-Tech Cove System should be installed at the room temperature described in the General section of the Floor Preparation instructions.

2. Walls must be square at floor level.

3. Floors and walls must be level to within 3 mm (1/8") over a distance of 3 m (10 ft.) and free from old adhesive, dust, solvent, paint, wax, oil, grease, asphalt, sealing and curing compounds and other foreign substances.

4. Dry fit Pro-Tech Cove System, measure and cut base to the required lengths. Use a carpenter's level to establish accurate angles when cutting inside and outside corners (these will be cut with a power miter saw).

5. If a cove cap is required, cut and dry fit prior to adhesive application.

6. Position dry-fitted Pro-Tech Cove System against the wall. Establish a glue line by drawing a line along the top of the base and the edge of the toe with a pencil.

7. Set the pieces of Pro-Tech Cove System to one side and spread the cove base adhesive. Spread the adhesive liberally within the glue lines using the manufacturer's recommended spreader.

8. Apply cove base adhesive to the back of the pieces of Pro-Tech Cove System and cover completely. Follow the cove base adhesive manufacturer's recommendations and set-up times.

9. Firmly place the pieces of Pro-Tech Cove System against the floor and wall. If a cove cap is required, slide the cap onto the top of the base and ensure proper transfer of adhesive.

10. Roll all surfaces with a hand roller to ensure maximum adhesion.

11. Remove excess adhesive and wipe all surfaces using a damp cloth.

12. You are now ready to install the flooring and scribe the Pro-Tech Cove System.

13. Inside and outside corners as well as seams in the Pro-Tech Cove System and flooring can be sealed using the optional heat or chemical weld methods outlined in this document.

Color Rite Caulking Sealer System

1. Color Rite caulking sealing system is designed to seal and finish the seams and edges of Medi-Flex TRUE™ sheet rubber to create a finished appearance.

2. Color Rite is available in a squeezable tube and therefore does not require a special applicator.

3. It will not stain or change the color or surface appearance of Medi-Flex TRUE™ sheet rubber. Color Rite is light when applied but darkens as it dries. A second application may be necessary if the gaps or spaces are abnormal in width and depth, or if excess material was wiped out before cured, causing gaps.

4. After the adhesive has cured, you can seal the seams and edges with Color Rite caulking.

5. Make sure that the edges of the rubber are clean, dry and free from adhesive residue. Joint size should not exceed 9 mm x 9 mm (3/8" X 3/8").

6. Cut the nozzle of the tube to the required size.

7. Starting at the base of the cove on the inside/outside corner, squeeze the tube to apply a bead of Color Rite to the seam. Note: Put masking tape on both sides of the joint to stop it from smearing onto the sheet rubber. This will speed clean up.

8. Use a smooth spreader or finger to smooth the Color Rite as desired.

9. Clean excess sealer from the flooring immediately.

10. Allow the Color Rite to dry. Curing time is approximately 1 hour, depending on site conditions.

11. Clean all tools using warm water before the sealer cures.

12. Color Rite caulking can be obtained directly from Color Rite customer service. Call: 405-354-3644.

Floor Protection And Initial Maintenance

1. Following installation and cleanup of the flooring, protect it by laying sheets of non-staining brown Kraft paper over the flooring and then a layer of plywood sheets (rolls of heavy non-staining cardboard material could also be used for protection). Leave in position until the work of all other trades has been completed.

2. Do not start any maintenance procedures for a minimum of 24 hours after installation.

3. Do not, at any time during the initial maintenance or thereafter, flood the floor with water or maintenance solutions.

4. Refer to Maintenance Instructions for specific details.

WARNING: Removal Of Old Flooring

Do not sand, dry sweep, dry scrape, drill, saw, bead blast, mechanically chip or pulverize existing resilient flooring, backing, felt lining, paint, asphaltic cutback adhesives or other adhesives. These products may contain asbestos fibres or crystalline silica. Avoid creating dust as inhalation increases the risk of cancer and respiratory diseases. Smokers exposed to asbestos fibres are at greater risk of serious bodily harm. Unless certain that the product is asbestos-free, assume that it contains asbestos. Regulations may require that material be tested to determine asbestos content. Consult the Resilient Floor Covering Institute's (RFCI's) recommendations for removal of existing resilient floor coverings.

Please note that technical web site documents prevail.