

9 SPORTFLEX • SUPER X

NOTE: Prior to the installation, make sure that the subfloor meets Mondo's [Subfloor Preparation](#) recommendations as described in [Section 1](#).

9.1 SURFACE PREPARATION

9.1.1 GENERAL CONTRACTOR

- a) Subfloors must be smooth and level within a tolerance of 1/8" (3 mm) in a 10' (3.05 m) radius. **Mondo does not recognize the "F" numbers: FF = floor flatness, FL = floor levelness.** Minor surface cracks or grooves must be filled with a good quality Portland cement based patching or leveling compound such as Mapei or Ardex. High spots, bumps and peaks must be repaired prior to installation. Mondo recommends a magnesium trowel finish. **Please note that while a smooth surface is desired, a shiny, slick, non-porous or conversely, an over-porous slab is not acceptable and will require additional preparation prior to installing Mondo flooring products.** For assistance, call the Mondo Technical Department.
- b) The concrete subfloor must be cured for a minimum of twenty-eight (28) days (refer to Section 1 [Subfloor Preparation](#)).
- c) The concrete subfloor temperature must be maintained at a minimum of 65°F (18°C) 48 hours prior, during and 48 hours after the installation. The contractor must make certain that the moisture vapor emissions of the slab do not exceed the tolerance of the specified adhesive, using the anhydrous calcium chloride test in accordance with ASTM F1869.

NOTE: Anhydrous calcium chloride tests, in accordance with ASTM F1869, will confirm whether the slab is dry enough to proceed with the installation. It does not mean the slab will always remain dry. Never attempt a moisture test until the HVAC unit has been operational for at least 7 days and the temperature conditions are constant in the building and reflective of in service conditions.

MONDO WILL NOT GUARANTEE THE ADHESION OF A MONDO PRODUCT TO A SUBFLOOR WITH MOISTURE VAPOR EMISSIONS EXCEEDING THE TOLERANCE OF THE SPECIFIED ADHESIVE, WHEN TESTED IN ACCORDANCE TO ASTM F1869.

9.1.2 FLOORING CONTRACTOR/SUBCONTRACTOR

- a) Before proceeding with any work, the substrate surface must be inspected and any visible defects on the surface such as cracks, bumps, rough areas or variations in levelness must be reported in writing to the project manager and the general contractor.
- b) The flooring **contractor/subcontractor** should verify that the moisture conditions of the substrate are within acceptable tolerances (refer to Section 1 [Subfloor Preparation](#)). The flooring contractor should keep records of all tests.
- c) Concrete substrates must be dry, clean, smooth and free of paint, oil, curing agents, surface hardeners, solvents, old adhesives, grease and other foreign materials. Concrete surfaces that are powdery or scaly are not acceptable. **Sweeping compounds must not be used.**
- d) Proper adhesion should be verified on any existing concrete surface that may have been contaminated with a curing compound, old adhesive or any other type of surface contaminant. If adhesion is questionable, Mondo recommends a light to medium shot-blasting (ICRI CSP #3 to #5 profile) and the performance of a bond test (refer to [Section 1.2.1.6](#)).

- e) Storage of rolled material on site should be at all times in a safe upright position.

9.2 INSTALLING SPORTFLEX AND SUPER X (INDOOR ONLY)

NOTE: When installing running/jogging tracks with radius it is possible to bend the material around the radius provided that the radius is not too small. Please contact Mondo's Technical Department for recommendations when faced with this type of installation.

- a) Do not install the rubber flooring until all jobsite conditions and subfloor preparations are met and completed. Before starting any installation, verify the product for type, size, thickness, color, visual imperfections or color variations and notify the Mondo Technical Department of all apparent defects. **No claims will be accepted after the material has been installed.**
- b) Once the above steps have been followed and/or completed, proceed to square the room and make the first chalk line parallel to the length of the room. Unroll material in the same direction and follow the numbered roll sequence. End seams should be staggered on the floor and overlapped approximately 6" (15 cm). Long seams must overlap by approximately 3/16" (0.5 cm).
- c) Once unrolled, allow the sport surface to relax overnight.
- d) Long seams do not need any trimming (unless damaged).**
- e) To make perfect **end (head) seams**, the first edge of the seam must be trimmed at least 3" (7.6 cm) using a good straight edge. Then cut the second edge by using the straight edge again **leaving 3/16" (0.5 cm) overlap** to make a tight compression seam.
- f) Dry lay all material prior to adhesion.

9.3 TROWEL SIZE

The recommended trowel size is 1/8" x 1/8" x 1/8" (3.2 mm x 3.2 mm x 3.2 mm) 'V' notch trowel.

NOTE: For 14 mm Super X, it is recommended to use 3/16" x 1/8" x 1/8" (4.8 mm x 3.2 mm x 3.2 mm) to accommodate the larger waffles.

9.4 ADHESIVE SPECIFICATIONS

Mondo sport flooring products can be installed using either Mondo PU 105 or Mondo EP 55 adhesives.

NOTE: Mondo PU 105 is the ONLY suitable adhesive for installing over Everlay.

NOTE: Mondo EP 55 is an epoxy based adhesive that cures to a very hard state. It may not be suitable for use with sport applications that anticipate heavy impact loads (i.e. weight rooms). If in doubt please contact Mondo's Technical Department for recommendations.

9.5 ADHESIVE APPLICATION

- a) Create a mixing station by selecting a location, away from the installation area, and protecting it with a 6' x 6' scrap piece of material, Kraft paper or other suitable product.
- b) The proportions for the mix are ready to use. Pour the small container of part B in the large pail of part A and stir thoroughly with a **variable speed** mixer (6 amps minimum). **The complete contents of both parts of the adhesive must be used at once.** Improper mixing may result in a poor bond. Using a variable speed mixer should not take longer than 2 minutes to mix the two parts to a creamy texture. Over-mixing will cause the catalyst to set up too fast, thus reducing pot life and entrapping air which may reduce bond performance. **The adhesive has to be applied immediately after mixing, otherwise it will thicken and be much harder to trowel.**
- c) When using the recommended notched trowel, there should be **at least 90% of adhesive transfer** onto the material backing.
- d) Roll back flooring from and end (head) to the middle of the roll length. **Do not “flop” back; always roll.**
- e) When starting the first row, apply adhesive evenly up to 2” (5 cm) from both edges of long seams and up 12” (30 cm) from end seam. Head seams will be adhered last.
- f) When applying the material into the **wet adhesive**, frequently check for a good adhesive transfer onto the material backing (90% transfer minimum).
- g) When starting the second row, apply adhesive underneath the long seam to be completed (the 2” (5 cm) of the previous row) and up to 2” (5 cm) from the next row.
- h) At the end of the day, stop the installation in the center of shot (6” (15 cm) minimum from edge), not at a seam. **DO NOT STOP AT A SEAM EDGE.** You can use a chalk line to mark your last adhesive line at the end of the day. When continuing the next day, make sure to get adhesive all the way back to the adhesive line from the day before.
- i) End seams must be perfectly closed by adjusting them without applying too much pressure. Pressured seams will cause peaking
- j) Use a 2” (5 cm) masking tape to close gaps in the seams and keep the tile in place while the adhesive sets. Never use duct tape. **Duct tape adhesive will chemically react with the flooring surface and leave a permanent residue.**
- k) **Suitable weight must be applied over every seam.** Grey concrete utility bricks (2” x 4” x 8”) are the only suitable weights. Completely cover the seams for a minimal period of 24 hours. Weighting the seams with bricks will prevent peaking.
- l) It is also necessary to brick the perimeter and all edges (i.e. doors, walls, columns, sleeves, etc.).

Suggested Brick Quantities for Weighing Seams

| | Sportflex and Super X |
|-------------------|------------------------------|
| Long Seams | 2 |
| Head Seams | 4 |



NOTE: The above listed quantities are merely suggestions. Specific site and environmental conditions could necessitate additional bricks on the seams. Enough bricks should be used to effectively keep the material flat in the adhesive for the required 24-hour period.

WARNING: Never use pieces of wood, boxes of other materials, sand bags, cinder blocks or any other substitute to weight the seams. **GREY CONCRETE UTILITY BRICKS, 2" X 4' X 8", ARE THE ONLY SUITABLE WEIGHTS.**

NOTE: Lack of weight on the seams while the adhesive is setting can result in peaking.

REMINDER: Before weighting the seams, use extreme care to check and immediately wipe off any excess adhesive that may be oozing through the seams and/or any spots of adhesive on the surface, using denatured alcohol. It is **EXTREMELY** difficult to remove adhesive when it has dried.

Do not use anything other than denatured alcohol.

9.6 OUTDOOR INSTALLATION

Contact Mondo's Technical Department for all outdoor installations.

DISCLAIMER: Refer to page 73 of this document.

WARNING: SHOULD YOU HAVE ANY CONCERNS OR BE UNSURE ABOUT SUBFLOOR CONDITIONS OR INSTALLATION PROCEDURES, PLEASE CALL OUR TECHNICAL DEPARTMENT.

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