

6 SPORT SHEET GOODS (ADVANCE, RAMFLEX, SPORT IMPACT, SPECKLEFLEX)

NOTE: Sport Impact flooring should never be installed over the Mondo Everlay system.

NOTE: Prior to the installation, make sure that the substrate meets Mondo's [Subfloor Preparation Recommendations](#).

6.1 SURFACE PREPARATION

6.1.1 GENERAL CONTRACTOR

- a) The general contractor must provide a finished concrete subfloor ready to receive Mondo's resilient rubber flooring within the recommended specifications contained herein. The slab must have a maximum tolerance level of 1/8" in a 10' (3 mm-3.05 m) radius. **Mondo does not recognize the "F" numbers: FF = floor flatness, FL = floor levelness.**
- b) The concrete subfloor must be cured for a minimum of twenty-eight (28) days as described in 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.

6.1.2 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 subfloors 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. Mondo recommends removing any of the above contaminants by mechanical abatement as described in Section 1.** 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](#)).
- d) Storage of rolled material on site should be at all times in a safe upright position.

6.2 INSTALLING SPORT SHEET GOODS

- 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 down the center of the room parallel to the length of the room.
- c) 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). ([Review Typical Layout Diagram](#) on page 32).
- d) Once unrolled, allow the sport surface to relax overnight. Colder facility temperatures may necessitate longer relaxation time.
- e) If a multiple color layout is to be made, double-checking measurements will avoid problems. Make sure that the seams between two colors will be in the middle of the painted gamelines (if applicable), whenever possible to do so.
- f) **To make perfect long seams, the edges of the seam must be trimmed a MINIMUM of one inch (1.75 cm) with the help of a chalk line and a straight edge.**
- g) **End seams should be overlapped approximately 6" (15 cm). The first edge of the seam must be trimmed a MINIMUM of 3" (7.6 cm) with the help of a good straightedge. Then cut the second edge by using the first straight cut side as a guide.**

NOTE: All cuts must be slightly beveled to make sure that the seam will close without applying too much pressure. Too much bevel can result in a peaking or falling seam. Reverse beveling will result in a gapped seam. Slightly beveled refers to < 5°.

NOTE: A proper cut should be made in multiple passes. The first pass should score through the wear layer using a utility knife. The second pass should be made using a hook blade. Experienced installers may choose to use other types of cutting tools but end results should be the same as required.

- h) End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressured seams will cause peaking.
- i) Dry lay and cut all material to be installed on a given day prior to any adhesion.
- j) **BEFORE CONTINUING THE INSTALLATION, REFER TO SECTION 6.3 TROWEL SIZE, SECTION 6.4 ADHESIVE SELECTION AND 6.5 ADHESIVE APPLICATION.**
- k) Mondo sport sheet goods can be installed using either the rolled method or the folded method. Select the appropriate method for your project by choosing to continue from this point to section 6.2.1 Rolled Method or 6.2.2 Folded Method.

6.2.1 ROLLED METHOD

- a) Continued from 6.2 k)
- b) Roll back the material starting at one end (head seam) to approximately half of the roll length.

- c) When starting the first row, apply adhesive evenly up to 2" (5 cm), or 6" (15 cm) if installing Sport Impact, from both edges of long seams (adjacent rolls) and stopping 6" before final head seam location in that shot. The head seam will be glued last.
- d) An entire row should be glued to the floor before starting another row.
- e) When placing material **in wet adhesive**, frequently check for a good transfer of adhesive (90% minimum).
- f) When starting the second row, apply adhesive underneath the long seam to be completed (i.e. the 2" (5 cm) of the previous row) and up to 2" (5 cm) from the next adjacent row. Adjust distance accordingly if installing Sport Impact.
- g) At the end of the day stop the installation in the center of shot, not at a seam. If installing Sport Impact stop at 6" (15 cm). **DO NOT STOP AT A SEAM EDGE.** When continuing the next day make sure to get adhesive all the way back to the finishing adhesive line from the day before.
- h) Use a lightweight 100 lbs (45 kg) roller to eliminate entrapped air, which could remain between the subfloor and the sport surface. Roll in multiple directions, first rolling across width then along the roll length.
- i) Remove any wet adhesive oozing from seams with denatured alcohol while the adhesive is wet. Dried adhesive residue will be extremely difficult to remove if not impossible. **DO NOT USE SOLVENT BASED PRODUCTS** as they could discolor the material.
- j) 2" (5 cm) masking tape can be used to help close gaps in the seams and keep material in place while the adhesive sets. **Never use duct tape. Duct tape adhesive will chemically react with, and leave a permanent residue on the flooring surface.**
- k) Even if the end or head seams look perfect, **always** apply masking tape on them to keep them perfectly closed until full cure.
- l) End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressured seams can cause peaking.
- m) **WEIGHTS MUST BE APPLIED OVER EVERY SEAM.** Grey concrete utility bricks (2" x 4" x 8") are the only suitable weights. **DO NOT SUBSTITUTE WITH RED BRICKS.** Completely cover the seams for a minimal period of 24 hours. Weighting the seams with bricks will prevent them from peaking. It is also necessary to brick the perimeter and all edges (doorways, walls, columns, sleeves, etc.). **See 6.2.3 Weight Chart for referenced quantities.**

6.2.2 FOLDED METHOD

- a) Continued from 6.2. k)
- b) Carefully fold open two adjacent shots, utilizing 2 to 3 men, for the entire roll length.
- c) Apply adhesive carefully down the exposed subfloor up to the edge of the folded back material on both sides. Be careful to keep a very straight adhesive line down the room length. It may be helpful to drop a chalk line here as a guide.
- d) Carefully place material into wet adhesive. **Do not flop material as it may cause air entrapment.**

- e) An entire row should be glued to the floor before starting another row. Continue this procedure across the room. Make sure to fold successive shots back enough to expose the previous adhesive line.
- f) When placing material in wet adhesive, frequently check for adequate transfer of adhesive (90% minimum).
- g) At the end of the day stop the installation in the center of shot, not at a seam. **DO NOT STOP AT A SEAM EDGE.** When continuing the next day make sure to get adhesive all the way back to the finishing adhesive line from the day before.
- h) Use a lightweight 100 lbs (45 kg) roller to eliminate entrapped air, which could remain between the subfloor and the sport surface. Roll in multiple directions, first rolling across width then along the roll length.
- i) Remove any wet adhesive oozing from seams with denatured alcohol while the adhesive is wet. Dried adhesive residue will be extremely difficult to remove if not impossible. **DO NOT USE SOLVENT BASED PRODUCTS** as they could discolor the material.
- n) 2" (5 cm) masking tape can be used to help close gaps in the seams and keep material in place while the adhesive sets. **Never use duct tape. Duct tape adhesive will chemically react with, and leave a permanent residue on the flooring surface.**
- o) Even if the end or head seams look perfect, **always** apply masking tape on them to keep them perfectly closed until full cure.
- p) End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressured seams can cause peaking.
- q) **WEIGHTS MUST BE APPLIED OVER EVERY SEAM.** Grey concrete utility bricks (2" x 4" x 8") are the only suitable weights. **DO NOT SUBSTITUTE WITH RED BRICKS.** Completely cover the seams for a minimal period of 24 hours. Weighting the seams with bricks will prevent them from peaking. It is also necessary to brick the perimeter and all edges (doorways, walls, columns, sleeves, etc.). **See 6.2.3 Weight Chart for referenced quantities.**

6.2.3 WEIGHT CHART

Suggested Brick Quantities for Weighing Seams

	Advance 2-Layer	Advance 3-Layer	Sport Impact	Ramflex	Speckleflex
Long Seams	2	2	3	1	1
Head Seams	4	5	8	6	6

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.

6.3 TROWEL SIZE

Before choosing the size of trowel needed, identification of the sport flooring is important. Advance comes with two different backings, a smooth backing and a waffled backing. Ramflex, Speckleflex and Sport Impact all come with the smooth backing only.

Product	Trowel size
Smooth Backing	1/16" x 1/16" x 3/32" (1.6 mm x 1.6 mm x 2.4 mm) 'U' notched.
Waffled Backing	1/8" x 1/8" x 1/16" (3 mm x3 mm x 1.5 mm) 'V' notched

6.4 ADHESIVE SPECIFICATIONS

Mondo sport flooring products can be installed using either one of Mondo's polyurethane or epoxy adhesives.

NOTE: Mondo's epoxy adhesive (EP 55) cannot be used when installing over Everlay. The only suitable adhesive for installing over Everlay is the polyurethane (PU 105).

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. free weight areas in workout facilities). If in doubt, please contact the Mondo Technical Department for recommendations.

6.5 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) **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.**

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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TYPICAL LAYOUT OF MONDO SHEET GOODS

Roll no. 1	Balance of roll no. 4	Balance of roll no. 7	Balance of roll no. 9	Balance of roll no. 12	Balance of roll no. 15	Balance of roll no. 20	Balance of roll no. 22	Balance of roll no. 25
	Roll no. 5		Roll no. 10					
Roll no. 2	Roll no. 6	Roll no. 8	Roll no. 11	Roll no. 13	Roll no. 16	Roll no. 21	Roll no. 24	Roll no. 26
				Roll no. 14	Roll no. 17			
Roll no. 3	Roll no. 7	Roll no. 9	Roll no. 12	Roll no. 15	Roll no. 20	Roll no. 22	Roll no. 25	Roll no. 27
Roll no. 4								