

4 COMMERCIAL TILES

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

4.1 SURFACE PREPARATION

4.1.1 GENERAL CONTRACTOR

- a) The general contractor **must** provide a finished concrete subfloor ready to receive Mondo 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 in a 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 (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.

4.1.2 FLOORING CONTRACTOR/SUBCONTRACTOR

- a) Before proceeding with any work, the subfloor surface must be inspected so that any visible defects such as cracks, bumps, rough areas or variations in levelness can be reported in writing to the project manager and the general contractor.
- b) The **flooring contractor/subcontractor** should verify that the moisture condition of the subfloor is within acceptable tolerance (refer to Section 1 [Substrate Preparation](#)). The flooring contractor should keep records of all tests for a minimum of three (3) years.
- c) Concrete subfloors must be dry, clean, smooth and free of paint, wax, 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 performance of a bond test (refer to [Section 1.2.1.6](#)).
- e) Storage of tile materials on site should be in a location where the corners will be protected.

4.2 INSTALLING COMMERCIAL TILES

- 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.

Note: If a multiple color layout is to be made, double-checking measurements will avoid problems.

- c) Dry fit entire floor section, positioning the tiles in an Ashlar pattern (staggered corners) or point to point (corner to corner). In general, it is easier to install the tiles in an Ashlar pattern. Please refer to the architectural plans for the correct layout (Mondo recommends the Ashlar pattern). Line up the first row of Mondo tiles with a chalk line. Lay a second row again, aligning the profiles if applicable. The tiles should be installed in the same direction (refer to the directional arrow in the reverse of the tile) unless otherwise specified on the architectural drawings (Review Typical Layout Diagram on page 24).
- d) When butting the seams together, do not apply excessive force or pressure to fit joints otherwise peaking could occur. Gently butting the seams together is sufficient.
- e) Apply the recommended/specified adhesive on an area that can be installed respecting the necessary flashing and open time periods.
- f) Lay the tiles in the adhesive, respecting flashing time of the adhesive used.
- g) 1/8" Masonite or 1/4" (6.4 mm) plywood are absolutely essential for proper flooring protection during the installation. Walking on the fresh adhesive before proper curing time will cause displacement of adhesive which may lead to indentation and/or bubbling.
- h) Frequently check for adequate adhesive transfer (90% min) by lifting a tile edge.
- i) You can use 2" (5 cm) masking tape to help close small gaps in the seams and keep the material in place while the adhesive sets. **Never use duct tape. Duct tape adhesive will chemically react with the flooring surface and leave permanent residue.**
- j) Roll the adhered flooring with a 75 lbs (34 kg) roller, **slowly**, in two directions, starting with width first and then by length. This must be done soon after laying. **Do not roll before removing entrapped air by hand.** After rolling, inspect material for any remaining air pockets. All air pockets have to be removed at this point before proceeding with the remainder of the installation.
- k) Rolling should be performed with a roller in good condition, as surface contaminants and/or defects in the roller surface can cause imperfections in the installation.
- l) If deemed necessary, apply small oblong sandbags or similar weights over the seams or areas that need assistance to remain in contact with the adhesive while it sets. Do not remove loads until final setting.
- m) Remove immediately upon completion of laying any dropped, or oozed adhesive with a damp cloth. Mondo **only** recommends water for removal of acrylic adhesives and denatured alcohol

for polyurethane and epoxy adhesives (**do not use anything other than denatured alcohol.**)

- n) **No foot traffic shall be allowed on the material for a period of 24 hours after the installation and for a longer period of time if the temperature is below 72° F (22° C). Prohibit heavy traffic or rolling loads for a period of for 72 hours. 1/8" Masonite or 1/4" plywood can be used to protect the material for the 24 to 72-hour period.**
- o) Do not install at temperature below 65° F (18° C) or above 86° F (25° C). Ambient temperature will affect the curing time of the adhesive. Lower temperatures will decelerate the curing process; higher temperatures will accelerate the curing process. Special care should be taken to accommodate ambient temperature to ensure proper transfer of adhesive.

4.3 TROWEL SIZE

The only recommended trowel size for the installation of Mondo commercial flooring goods is the **1/32" x 1/16" x 1/32" "U" notch trowel** and it applies to all Mondo adhesives.

4.4 ADHESIVE

Mondo's commercial flooring products can be installed using any of our acrylic, polyurethane or epoxy adhesives. (Refer to pages 48 for more information on adhesives).

4.5 INITIAL CLEANING AND MAINTENANCE PROCEDURES

- a) Before proceeding with the initial cleaning, allow the new installed flooring a setting time period of 72 hours.
- b) Follow Mondo's commercial maintenance instructions to ensure proper and adequate maintenance.

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 TILES (ASHLAR PATTERN)

1st Tile	Half of 10th Tile	19th Tile	Half of 28th Tile	37th Tile	Half of 46th Tile	55th Tile	Half of 64th Tile	73rd Tile
	11th Tile		29th Tile		47th Tile		65th Tile	
2nd Tile	20th Tile	30th Tile	38th Tile	48th Tile	56th Tile	66th Tile	74th Tile	
	12th Tile		39th Tile		57th Tile		75th Tile	
3rd Tile	21st Tile	31st Tile	40th Tile	49th Tile	58th Tile	67th Tile	76th Tile	
	13th Tile		41st Tile		59th Tile		77th Tile	
4th Tile	22nd Tile	32nd Tile	42nd Tile	50th Tile	60th Tile	68th Tile	78th Tile	
	14th Tile		43rd Tile		61st Tile		79th Tile	
5th Tile	23rd Tile	33rd Tile	44th Tile	51st Tile	62nd Tile	69th Tile	80th Tile	
	15th Tile		45th Tile		63rd Tile		81st Tile	
6th Tile	24th Tile	34th Tile	46th Tile	52nd Tile	70th Tile	71st Tile	82nd Tile	
	16th Tile		47th Tile		72nd Tile		83rd Tile	
7th Tile	25th Tile	35th Tile	48th Tile	53rd Tile	73rd Tile	74th Tile	84th Tile	
	17th Tile		49th Tile		75th Tile		85th Tile	
8th Tile	26th Tile	36th Tile	50th Tile	54th Tile	76th Tile	77th Tile	86th Tile	
	18th Tile		51st Tile		78th Tile		87th Tile	
9th Tile	27th Tile	37th Tile	52nd Tile	55th Tile	79th Tile	80th Tile	88th Tile	
	Rest of 10th Tile		Rest of 28th Tile		Rest of 46th Tile		Rest of 64th Tile	89th Tile