

INSTALLATION MANUAL

DISCLAIMER: Refer to page 5 of this document.

1. SURFACE PREPARATION

Before installing resilient flooring products, it is recommended that all parties consult Mondo's current **Substrate Surface Preparation** manual for detailed procedures, additional recommendations and information on substrates or particularities not covered by this document. This document is intended for indoor installations over concrete. **Concrete slab must be properly prepared to provide a satisfactory bonding surface for the adhesive being used to install the resilient athletic flooring.** Consult a current copy of *ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring* for typical industry requirements regarding surface preparation.

1.1 GENERAL CONTRACTOR (GC)

- a) Flooring **installation will not commence until the building is enclosed** and all other trades have completed their work.
- b) **New concrete must be allowed to cure a minimum of 28 days**, having a minimum 3500 psi in compressive strength (25 MPa). However, consider that drying time is typically 4 weeks for every 1-inch thickness of slab (Example: a 6 in. slab will take around 24 weeks to adequately dry).
- c) Concrete must be smooth and level within a tolerance of 1/8 in (3 mm) in a 10-foot (3.05 m) radius. *Note: Mondo does not recognize the "F" numbers: FF (floor flatness) and 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 resilient flooring installation. Mondo recommends a magnesium trowel finish. **Note that while a smooth surface is desired, a shiny, slick, non-porous or over-porous slab is not acceptable and will require additional preparation prior to resilient flooring installation. Once the concrete surface preparation is complete, you should have a CSP (Concrete Surface Profile) of about 1.**
- d) GC is responsible for providing finished concrete that is properly prepared and ready to receive resilient flooring. Concrete slabs must be dry, sufficiently porous, smooth, clean and free of bond inhibitors (paint, wax, dust, oil or grease, sealers or curing agents, surface hardeners, solvents, asphalt, old adhesive residues, etc.). Concrete surfaces that are powdery or scaly are not acceptable. **Contaminants are to be mechanically abated**, such as light to medium shot-blasting (ICRI CSP #3 to #5 profile). **Do not use abatement chemicals.** *NOTE: Advise flooring contractor, in writing, of any contaminants that were removed so that removal effectiveness can be verified with a bond test.*
- e) GC to maintain stable room and base temperatures prior to moisture testing and resilient flooring installation, during the installation, as well as a minimum of 48 hours after the resilient flooring has been completely installed. Recommended ambient temperature range is between 65°F and 86°F (18°C and 30°C) and recommended ambient humidity control level should be between 35-55%. **Ensure HVAC unit is operational for controlled temperature and humidity, for the purpose of accurate moisture testing results and stable ambient conditions during installation.**
- f) Concrete slab must be free of any hydrostatic pressure and/or other types of moisture-related problems. **Moisture and alkalinity tests must be performed on all concrete slabs, under in-service conditions (HVAC**

must be operational for at least 7 days prior to testing). Ensure a concrete surface **pH range of 7 to 10**; readings below 7 and in excess of 10 have been known to affect some adhesives. When testing concrete moisture vapor emissions (ASTM F1869) or relative humidity (ASTM F2170), ensure individual results do not exceed the specified adhesive's tolerance. Refer to selected adhesive's technical data sheet. **WARNING: Moisture tests will help confirm whether a concrete slab is dry enough to proceed with the resilient flooring installation, but it does not mean the slab will always remain dry. Mondo will not guarantee the adhesion of any of its resilient flooring products to a concrete slab with relative humidity or moisture vapor emissions rates exceeding the tolerance of the specified adhesive.**

1.2 FLOORING CONTRACTOR/SUBCONTRACTOR

- a) **DO NOT proceed with the installation of the resilient flooring until all jobsite conditions are met and surface preparation is complete.**
- b) Always store rolls of resilient flooring upright on a dry, clean and flat surface. Always store resilient tiles on a dry, clean and flat surface, carefully protecting corners and edges. Climate controlled storage is recommended; storage temperature must not be below 40°F (4°C) or exceed 100°F (38°C).
- c) All trades to protect flooring products and accessories from damage, including exposure to harmful weather conditions. Flooring products should not suffer damage during handling (such as dents, scratches, edge chipping, warping, etc.). **WARNING: Avoid prolonged storage or additional material trimming may be required prior to installation.**
- d) Flooring Contractor to thoroughly inspect concrete surface for any visible defects (such as cracks, bumps, rough areas or variations in levelness, etc.). Immediately report defects in writing to the Project Manager and GC. Defects must be corrected prior to resilient flooring installation.
- e) Flooring Contractor to confirm moisture and alkalinity test results and verify their suitability with all preparation products and adhesives specified (as outlined in section 1.1 above, under point f). Safely keep records of all test results.
- f) Flooring Contractor to confirm concrete surface is free from any bond inhibitor/contaminant (paint, wax, dust, oil or grease, sealers or curing agents, surface hardeners, solvents, asphalt, old adhesive residues, etc.) and ready to receive resilient flooring (as outlined in section 1.1 on page 1, under point d).
- g) Flooring Contractor to vacuum entire room prior to installation (remove dust, loose dirt and debris). **DO NOT use sweeping compounds.** If desired, use damp (not wet) sawdust to help with sweeping.
- h) Allow all resilient flooring products, adhesives and accessories to **acclimate to in-service conditions** a minimum of **24 hours prior** to their use/installation.
- i) **Before you proceed with the installation, verify that all resilient flooring products, adhesives and accessories received are as was specified for the project** (verify physical characteristics such as type, color, thickness, format, dimensions, etc.). Prior to installation, ensure resilient flooring products are free of apparent defects/imperfections or color variations. **WARNING: NO CLAIMS WILL BE ACCEPTED AFTER THE MATERIAL HAS BEEN INSTALLED.**

2. EVERLAY RESILIENT UNDERLAYMENT (when specified)

Everlay is a prefabricated elastomeric underlayment sheet reinforced with fiberglass. It can be used with the majority of Mondo's resilient athletic flooring products and is intended for **indoor applications only**.

Everlay is the ideal solution where moderate moisture problems in the substrate prevent the use of a standard flooring adhesive. It allows the user a loose-laid flooring system by applying the Everlay over the substrate and then adhering flooring to the Everlay, essentially creating a floating floor system. **Vented cove base must be used with Everlay to allow for proper air flow/dissipation of moisture vapors.**

While the Everlay may be glued down in a minimal amount of selected areas, Everlay is first and foremost an underlayment product that is meant for loose-laid applications. That said, use of Everlay does not negate the responsibility for proper substrate surface preparation.

WARNING: If you have never worked with Everlay before, you must obtain proper training; do not attempt work without assistance from of an experienced and qualified Mondo installer.

2.1 LIMITATIONS

- a) **The only suitable adhesives for gluing resilient athletic flooring over Everlay are Mondo's PU 100 and PU 200 polyurethane adhesives.**
- b) In areas where heavier equipment may be used, the Everlay may need to be adhered to the substrate to help prevent any sliding movement. If you are unsure, please contact Mondo's Technical Department for recommendations.
- c) Everlay is not suitable for applications in areas that may be subjected to continuous surface impacts, such as strength and weight training areas.
- d) Everlay cannot be used in conjunction with Mondo contract flooring.
- e) **Vented cove base must be used** with Everlay to allow for proper air flow/dissipation of moisture vapors.
- f) **Moisture vapor emission content of the concrete slab must not exceed 12lbs/1,000ft² (5.44kg/93m²) in 24 hours, as tested according to ASTM F1869 (anhydrous calcium chloride for moisture vapors from concrete).**

2.2 INSTALLING EVERLAY

- a) **Installation mock-ups/test areas are always highly recommended.**
- b) Consult section 1 Surface Preparation prior to installation.
- c) Square the room and make the first chalk line down the center of the room parallel to the length of the room.
- d) Unroll material in the same direction. Allow the underlayment to relax overnight (12 hours minimum or longer if needed). Colder facility temperatures may necessitate longer relaxation time; adjust as needed.
- e) Dry lay and cut-to-fit complicated cuts prior to adhesion, such as perimeters, columns, doorways, etc., that are within the space. When cutting Everlay, leave a minimum 1-inch (2.5 cm) space around perimeters, columns, etc., to allow for air circulation. **Vented cove base must always be used with the Everlay system.**

- f) Wherever there will be a resilient athletic flooring head seam above, the Everlay underlayment must be glued down to the substrate in that area, about 12 inches (30.5 cm) wide, in order to help prevent any peaking seams in the flooring atop. Serpentine cut the Everlay at these locations. Glue as you go instead of doing it ahead of time. Use a smaller trowel (VCT trowel) to glue these locations down and to avoid any excess adhesive build up and height variances.
- g) To prevent any shifting of the Everlay in loose-laid areas and/or to prevent adhesive getting on the substrate as you are gluing the resilient athletic flooring atop, apply a good quality 1-inch (2.5 cm) wide packing tape over all of the Everlay seams. Proceed to lightly sand the tape to remove surface sheen and ensure a good bonding surface for the adhesive. The seams have to be completely closed in order to prevent the adhesive from seeping through.
- h) Once the Everlay is installed, refer to the specified resilient athletic flooring's installation instructions for gluing over the Everlay. **The only suitable adhesives for gluing resilient athletic flooring over Everlay are Mondo's PU 100 and PU 200 polyurethane adhesives.**
- i) Note that the seams of the Everlay must be at least 6 inches (15 cm) away from where the seams of the resilient athletic flooring product installed atop will fall.

3. DISCLAIMER

These instructions conform to commonly accepted techniques for the installation of resilient flooring, including installation and use of Mondo's resilient athletic flooring products. However, Mondo will not accept any liability whatsoever for any incorrect implementation of these instructions nor for any failure of equipment, paint & primer, patching and leveling compound, adhesive or any other product not manufactured by Mondo that may be referenced in these instructions, nor for any adverse handling, climatic or environmental conditions that may affect the installation and/or the performance of flooring products.

The above installation recommendations are provided for general guidance only. Mondo assumes no responsibility neither for actual work performed nor for loss or damage that may result from the use of this information due to variations of processing or working conditions outside of our control. Users are advised to confirm suitability of conditions and products by performing their own tests and verifications.

Mondo's standard warranty only extends to the quality and performance of its manufactured flooring products.

WARNING: Should you have any concerns or be unsure about installation conditions or procedures, please consult Mondo's Technical Department:

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