



Mondo Indoor Track Storage and Installation Manual

INDOOR INSTALLATIONS – Mondo Indoor Track Material STORAGE AND INSTALLATION MANUAL

1 Receiving and Inspecting Goods

- 1.1 Immediately upon receiving goods, inspect all packages in the presence of the carrier's representative to make sure that the quantity of packages is correct, that packages are free of damage, and that labels match the Mondo commercial invoice and the packing list when available.
- 1.2 In the event of any exceptions to the quantity, condition and content of the packages, place a note on the carrier's Transport Document (B/L, CMR, AWB), and notify Mondo in writing within 72 (seventy-two) hours.
- 1.3 **IMPORTANT** - If Mondo is contractually responsible for the transport of the goods, Mondo accepts no liability for any shortage or mismatch of products, and for any damage to the products arising from apparent external damage to the packages, unless the problem was duly noted on the carrier's Transport Document and notified to Mondo in writing within 72 (seventy-two) hours of receipt of the shipment.

2 Storage

- 2.1 Product shall be stored in the original crates and/or on the original skids provided by Mondo.
- 2.2 The storage area shall be enclosed, clean, dry, well ventilated, and protected from direct sunlight, rain, and the weather.
- 2.3 Unless otherwise specified on the product label, all products supplied by Mondo shall be stored at temperatures ranging between 41°F (+5°C) and 104°F (+40°C).
- 2.4 Rolls must always be stored vertically on a flat surface and must never be stacked.
- 2.5 Adhesive pallets must always be stored horizontally on a flat surface and must never be stacked.
- 2.6 Storage periods exceeding 6 (six) months from invoice date for both material and adhesive, as well as storage in inappropriate environmental conditions and storage in incorrect position, might cause permanent damage and deformation of the products.
- 2.7 **IMPORTANT** - Mondo accepts no liability for damage and defects of products stored for periods exceeding 6 (six) months from invoice date and/or in inappropriate environmental conditions and/or in wrong positions.

3 Subfloor Inspection

- 3.1 Concrete subfloors must be magnesium trowel finished and be homogeneous, smooth, hard, sound, and have an open/absorptive surface.
- 3.2 Shiny, slick, non-porous or conversely, over-porous, dusting concrete subfloors are not acceptable, and will require additional preparation.
- 3.3 Subfloors must be level. There shall be no depressions or high spots beneath a 10' straightedge exceeding 1/8". Depressions or high spots beneath a 4' straightedge shall not exceed 1/16".
- 3.4 Slopes and gradients of the subfloor shall meet the requirements of the relevant Sport Federation(s).
- 3.5 Concrete subfloors shall be free of surface imperfections, cracks, areas of cohesive failure, moisture stains.

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- 3.6 Concrete subfloors shall be clean and free of cement or plaster crusting, paint, wax, dust, mud, oil, sealers, grease, curing agents, surface hardeners, solvents, asphalt, old adhesives and any other contaminants that could inhibit bond strength.
- 3.7 Concrete subfloors shall always be installed over a minimum 0,3mm (12mil) polyethylene moisture barrier membrane with joints overlapping by at least 20 cm. The membrane shall be turned up all walls and pillars.
- 3.8 **IMPORTANT** - Moisture and alkalinity tests must be performed on all concrete substrates, under in-service conditions. It is recommended to turn on the HVAC unit prior to performing moisture testing, in order to ensure stable testing conditions and accurate results. The concrete's surface pH should be between 7 and 10. Relative humidity of the concrete slab must not exceed 85%, in accordance with ASTM F2170 (in situ probes). Moisture vapor emissions from the concrete slab must not exceed the tolerance of the adhesive specified, in accordance with ASTM F1869 (anhydrous calcium chloride).
- 3.9 If the relative humidity of a concrete subfloor exceeds 85%, or if you suspect that the polyethylene vapor barrier was not installed, or that it was installed incorrectly, or that it was damaged, concrete subfloors shall be sealed with a Topical Moisture Reduction Barrier (TMRB) approved by Mondo Technical Department applied in accordance with the manufacturer's instructions. This is essential in order to prevent moisture vapors emission and/or alkali migration.
- 3.10 Subfloors must be equipped with all pieces of in-ground equipment eventually required, such as sleeves, plinths, brackets, hooks, etc., properly embedded in subfloor in accordance with the manufacturer's instructions.
- 3.11 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by faulty design, construction, or performance of the support/underlying/adjacent structures, and by moisture or alkali migration through subfloors.

4 Subfloor Preparation

- 4.1 Completely remove weak or poorly bonded layers e.g. cement or plaster crusting, old adhesive, levelling compound residues or old surface finishes and paint residues, etc.
- 4.2 All contaminants must be removed via mechanical abatement such as sanding, scarifying or shot blasting. Never use water or chemical abatement methods.
- 4.3 Areas affected by localized cohesive failure, or contaminated by oil, grease or other chemicals that penetrated deep into the concrete, must be remedied by cutting out the slab to full depth and replacing with new concrete at the correct elevation. If the moisture barrier membrane is damaged during the cut and replace operation, a new moisture barrier membrane shall be installed.
- 4.4 Assuring that cracks are properly treated is essential to restore the continuity of the subfloor and to allow the correct installation of the flooring. However, any further setting of the subfloor may cause further movement of existing cracks, or new cracks and fissures that may show through the newly applied resilient floor.
- 4.5 Open shrinkage cracks and construction joints with a diamond blade, clean, and fill with a polyurethane based product, designed for filling joints as approved by Mondo Technical Department and applied in accordance with the manufacturer's instructions. If planning to apply a Topical Moisture Reduction Barrier (TMRB), first coat sidewalls and bottom of cavity with the selected TMRB, applied according to the manufacturer's instructions.
- 4.6 Clean saw-cut crack-control joints and fill with a polyurethane based product, designed for filling joints as approved by Mondo Technical Department and applied in accordance with the manufacturer's instructions. If planning to apply a Topical Moisture Reduction Barrier (TMRB), first coat sidewalls and bottom of cavity with the selected TMRB, applied according to the manufacturer's instructions.



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- 4.7 **IMPORTANT** - Expansion joints are typically subject to continuous movement. The best treatment for these joints is to cut the resilient flooring on either side of the joint and to install a proper transition strip molding. If planning to apply a Topical Moisture Reduction Barrier (TMRB), first coat sidewalls and bottom of cavity with the selected TMRB, applied according to the manufacturer's instructions.
- 4.8 High spots can be remedied through grinding.
- 4.9 Shiny, slick, non-porous concrete shall be subject to a light to medium shot blasting.
- 4.10 Concrete slabs that are loose, sandy and scaly or have a white powdery surface must be scarified or shot-blasted to remove affected material.
- 4.11 **IMPORTANT** - Moisture and alkalinity tests must be performed on all concrete substrates, under in-service conditions. It is recommended to turn on the HVAC unit prior to performing moisture testing, in order to ensure stable testing conditions and accurate results. The concrete's surface pH should be between 7 and 10. Relative humidity of the concrete slab must not exceed 85%, in accordance with ASTM F2170 (in situ probes). Moisture vapor emissions from the concrete slab must not exceed the tolerance of the adhesive specified, in accordance with ASTM F1869 (anhydrous calcium chloride).
- 4.12 **IMPORTANT** - Mondo accepts no liability for product damage caused in whole or in part by the use of TMRBs that are not approved by Mondo, or that were used after the expiration date.
- 5.13 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by moisture or alkaline migration through the subfloors.
- 5.14 Level shallow depressions and any grooved surface resulting from grinding using an epoxy-polyurethane adhesive or Portland-Cement based leveling products approved by Mondo applied in accordance with the manufacturer's instructions. Always check the expiration date. The depth of the leveling layer must be limited to 6mm or less. Levelled areas must be thoroughly sanded prior to the installation of the synthetic surface. No leveling products other than epoxy-polyurethane adhesive or Portland based leveling products approved by Mondo shall be used as a leveling compound.
- 5.15 **IMPORTANT** - Mondo accepts no liability for product damage caused in whole or in part by the use of adhesives or leveling products that are not approved by Mondo, or that were used after the expiration date.
- 5.16 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by incorrect or insufficient subfloor preparation.

6 Environmental and Site Conditions

- 6.1 The installation area shall be enclosed, with all windows installed.
- 6.2 The installation area shall be clean, dry, well ventilated, with constant ambient temperature ranging between 50°F (+10°C) and 86°F (+30°C).
- 6.3 Materials must be stored at the laying temperature in the installation area for at least 24 (twenty-four) hours before laying commences.
- 6.4 Prohibit traffic and the execution of any activity that might bring dust or other contaminants into the installation area.
- 6.5 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by installation in inappropriate environmental conditions.

7 Installation Procedure

- 7.1 **IMPORTANT** - Installation of indoor running tracks shall only be performed by Mondo Certified Track Installers.
- 7.2 Prior to cutting, trimming, gluing, installing, or applying the products, verify that products are free of apparent damage or defects.
- 7.3 In the event of any exceptions to the condition of the products, notify Mondo in writing within 10 (ten) days of discovery. In such an event, please wait for the instructions of Mondo before

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proceeding with the installation.

- 7.4 **IMPORTANT** - Mondo accepts no liability for any apparent damage or defects of the products unless duly notified to Mondo in writing within 10 (ten) days of discovery, and prior to the execution of any cutting, trimming, gluing, installation, application, combination or any other handling, manipulation or intervention on the products.
- 7.5 Materials must be stored at the laying temperature in the installation area for at least 24 hours before laying commences.
- 7.6 When removing the rolls placed vertically on the skids, always use suitable tilting trolleys. Never tip the rolls on the ground by pivoting on the base of the roll, as this may cause permanent deformation of the selvedge.
- 7.7 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by incorrect handling inside or outside the installation area.
- 7.8 Floorings must be dry-laid and cut to fit prior to any adhesion. Unroll material in the same direction and follow the numbered roll sequence. Overlap long seams by approximately 1/8" head seams should be staggered and overlapped by a minimum of 6".
- 7.9 To ensure proper acclimatization of the materials, dry-lay the flooring about 24 hours before starting the installation.
- 7.10 Long seams do not need any trimming, unless you need to adjust the width of the roll, or the selvages of the rolls are damaged.
- 7.11 In indoor track projects, rolls can never be narrower than the nominal width; otherwise, the lane lines will not cover all long seams. To avoid this issue, take into account that one selvedge of the rolls placed vertically on the skids might suffer damage during transport and handling, and that in cold installation temperatures the material has a tendency to shrink, the nominal width of our Sportflex M, Super X and Mondotrack WS products is always increased by a minimum of 6mm during production. In cold temperature conditions, and in the absence of damage to the selvedge of the rolls, you shall trim/rectify long seams every 4th lane/row of rolls. This will suffice to guarantee that all long seams fall under a 50mm wide lane line. In warm conditions, or if the selvedge of the rolls is damaged, you shall trim/rectify long seams as often as required to make a good long seam, and/or to guarantee that all long seams will fall under a lane line.
- 7.12 **IMPORTANT** - The presence of permanent deformations caused by improper storage or handling may require total or partial replacement of the products or additional overlapping and trimming at the customer or installer's charge, as the case might be.
- 7.13 Install the floor using only epoxy-polyurethane or polyurethane adhesives approved by Mondo (Mondo PU300, EPU 200), applied in accordance with the manufacturer's instructions. Always check the expiration date. For floorings equipped with a texturized backing, we recommend trowel size 1/16" x 1/16" x 3/32" U shape for up to 12 mm product and 1/8" x 1/8" x 1/8" V shape for 13.5 mm products depending on type of subfloor. Those indications are, however, approximate and must be checked on site.
- 7.14 **IMPORTANT** - Mondo accepts no liability for product damage caused in whole or in part by the use of adhesives that are not approved by Mondo, or that were used after the expiration date.
- 7.15 When starting the installation of the first row of material, roll back the material starting at both ends of the rolls, to approximately the middle of the roll length.
- 7.16 Apply the adhesive until approximately 1/4" from the long seams and until approximately 12" from the head seams. The head seam will be glued last.
- 7.17 Unroll the material into the fresh adhesive and press carefully the surface of the material with a smooth spatula taking care not to place the other hand on the floor.
- 7.18 To make head seams trim the first edge of the head seams with the assistance of a good straightedge; then cut the second edge by using the straight edge again leaving 1/8" overlap to make a tight compression seam. Cuts must be slightly inclined (beveled) to guarantee perfect head seams.
- 7.19 Lift the edges of the head seams and apply adhesive underneath. Press carefully together the

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- edges of the seam with a smooth trowel making sure not to place the other hand on the floor.
- 7.20 Load the perimeter and all seams with flat concrete bricks.
- 7.21 **IMPORTANT** - Lack of weight on the seams while the adhesive is setting can result in peaking.
- 7.22 When starting the installation of the second row of material, proceed as described in item 6.15.
- 7.23 When applying adhesive under the material, lift the edge of the adjacent row of material and apply adhesive underneath it all the way back to the adhesive line.
- 7.24 After applying the adhesive, unroll the material into the fresh adhesive taking care to overlap the long seams by approximately 1/8" to make a tight compression seam.
- 7.25 At the end of the day, stop the application of adhesive 6" minimum from the edge of head seams, and 2" from the edge of long seams. When continuing the next day, make sure to get adhesive all the way back to the adhesive line from the day before.

8 Game Lines Application

- 8.1 Line marking of indoor banked running tracks shall only be performed by Mondo Certified Track Line Markers.
- 8.2 Game lines shall be painted with paint approved by Mondo applied in accordance with the manufacturer's instructions. Always check the expiration date.
- 8.3 **IMPORTANT** - Mondo accepts no liability for product damage caused in whole or in part by the use of paints that are not approved by Mondo, or that were used after the expiration date.
- 8.4 Mark off the floor in accordance with the rules of the relevant Sport Federation(s).
- 8.5 Apply paint with a suitable line-marking machine equipped with a flat spray nozzle and/or with side disks.
- 8.6 Do not apply paint with rollers or paint brushes.
- 8.7 No foot traffic shall be allowed on the material for a period of 24 hours after the installation.
- 8.8 Newly installed floors must be protected from traffic and pollution caused by other construction activities. If necessary, use protection on surface.
- 8.9 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by other construction activities.
- 8.10 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by use of improper or non-authorized installation or line marking procedures.
- 8.11 **IMPORTANT** - Storage periods exceeding 6 (six) months from invoice date; environmental conditions during storage, installation, line marking or operation other than those specified by Mondo; the use of storage, installation, line marking or maintenance procedures not approved by Mondo; the use of adhesives, paints, detergents or other chemicals not approved by Mondo; the installation or line marking of indoor banked running tracks by installers or line markers not specifically certified by Mondo; the use of the floor for purposes other than the sport activities for which the flooring is intended; the execution of technical interventions without prior authorization by Mondo, will immediately void the Mondo warranty.

For additional inquiries, please contact the Mondo Technical Support email at sports.technical@mondousa.com