

MAINTENANCE INSTRUCTIONS

Outdoor Applications Sportflex M, Super X, & Mondotrack Surfaces Operation and Maintenance Manual

This maintenance program is designed to promote athletes' safety, to maintain optimum track surface performance and appearance, and to prevent premature deterioration of the surface. The use of the correct maintenance procedures is key to guarantee the performance over the life of the Mondo track surface, and to keep the Mondo warranty valid.

1 Operating Environmental Conditions

- 1.1 When exposed to weather, all track products undergo a natural process of aging and wearing, leading to progressive deterioration of their properties.
- 1.2 Mondo's outdoor track surface products are designed to provide an excellent service-life in standard environmental conditions.
- 1.3 Acts of God such as earthquakes, landslides, flooding, exceptionally high-water table fluctuations, extreme weather events, and any other extraordinary occurrence caused by natural forces might cause permanent damage to the track surface.
- 1.4 **IMPORTANT** - Mondo accepts no liability for damages to the products caused in whole or in part by acts of God such as earthquakes, landslides, flooding, exceptionally high-water table fluctuations, extreme weather events, and any other extraordinary occurrence caused by natural forces.

2 Preventive Maintenance

- 2.1 Do not allow any activity on the unprotected track surface, other than those sport activities for which the track surface is intended.
- 2.2 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by use different from the intended one, misuse or abuse of the track surface.
- 2.3 Only allow the wearing of non-marking non-black soled shoes on the track surface.
- 2.4 Prohibit the wearing of high heel, hard soled, and black soled shoes on the track surface, as those might cause indentation, abrasion, and scuff marks.
- 2.5 Control access to the track surface to avoid litter, debris, dust, sand, grit, mud and dirt transferring to the floor. Route access traffic, accordingly, and prohibit the wearing of street shoes on the track surface.
- 2.6 As part of good facility management practices, Mondo recommends controlling the length and shape of spikes allowed on track surfaces. While Mondo's track surfaces are suitable for accepting the spikes described in the World Athletics Competition Rules, based on experience only low-penetration pyramid and compression spikes should be permitted. Needle spikes are not permitted. Spike length should not exceed 6mm. Please reference Mondo Technical Bulletin 11-001.
- 2.7 **IMPORTANT** - A Mondo track surface must meet a minimum thickness of 10mm for use of track spikes.
- 2.8 Starting blocks should be fitted with 12mm heavy-duty steel slim-cone spikes and regularly checked to ensure no spikes are missing.
- 2.9 **IMPORTANT** - Badly designed starting blocks and/or starting blocks with missing spikes will slip back and tear the surface. This will affect the athlete's performance and will require early replacement of the start area.
- 2.10 Always adjust the feet of the long and triple-jump boards and covers till these are perfectly flush with the surrounding synthetic surface.
- 2.11 Schedule practice so as to spread wear evenly over the entire track surface.
- 2.12 **IMPORTANT** - Lane gates can help reduce wear on the inner lanes of the oval.
- 2.13 Using protective mats during training sessions helps reduce wear on runways.
- 2.14 Keep adjacent areas free of litter, debris, mud, dirt, and oil spillage.

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- 2.15 Install trash and litter containers near the track surface in a sufficient number to avoid overflow.
- 2.16 Install water stations off the track surface.
- 2.17 Prohibit the use of adhesive tape and the like on the track surface. If unavoidable, ensure the tape is removed before glue is permanently transferred. Residue from adhesive tapes can be very challenging to remove and might permanently stain the track surface.
- 2.18 Prohibit food and beverage on the track surface. Residue from certain types of food and highly colored drinks and chemicals can be very challenging to remove if left to dry and might permanently stain the floor.
- 2.19 Prohibit chewing gum and tobacco on the track surface.
- 2.20 Ban smoking on the track surface.
- 2.21 Ban open flames, welding, etc. on the track surface.
- 2.22 Prohibit changing or adding fluids to vehicles and equipment while on the track surface.
- 2.23 Ensure that all pieces of loose athletic equipment and furniture allowed on the track surface are in good order, rust-free and fitted with appropriate wheels, feet, glides, caps, etc. Always avoid the use of black rubber mats, wheels, feet, glides, caps, etc., as they may contain black carbon chemicals that could permanently stain the track surface. Always choose non- staining light-color products.
- 2.24 Prohibit sharp objects and abrasive surfaces on the unprotected track surface.
- 2.25 Prohibit point loading on the unprotected track surface.
- 2.26 Limit distributed loading on the track surface to 100lbs/SF, or the distributed load-bearing capacity of the substrate, whichever the lowest.
- 2.27 Do not store materials on the unprotected track surface.
- 2.28 Do not allow vehicles and equipment to drive or park on the unprotected track surface.
- 2.29 **IMPORTANT** - If heavy loads, such as temporary bleachers, seats, stages, vehicles, equipment, etc. must be allowed into the facility, protect the track surface to avoid contact with sharp edges, abrasive surfaces, wheels, and tires, and to eliminate point loading. Distribute point load with load spreaders. Area, thickness, and rigidity of the load spreaders should be determined to guarantee a load distribution that does not exceed 100lbs/SF or the distributed load- bearing capacity of the substrate, whichever the lowest. At the minimum place one layer of kraft paper and place two layers of 3/4" plywood with joints staggered over the kraft paper. Extend the protection 3ft. beyond the load application area. Additional planking and gangways may be required over this initial protection, depending upon the shape and size of the load application area and the distributed load-bearing capacity of the substrate.
- 2.30 If equipment or vehicles must be allowed onto the unprotected track surface, restrict to light vehicles with turf tires, mechanical sweepers and emergency vehicles.
- 2.31 Equipment or Light vehicles allowed onto the unprotected track surface shall only drive on the unprotected track surface when the ambient temperature is below 77°F (25°C).
- 2.32 Equipment or Light vehicles allowed onto the unprotected track surface shall always avoid sharp turns, static turning and abrupt movements that can cause delamination and scuffing.
- 2.33 **IMPORTANT** - Tire marks, if neglected, can be difficult or impossible to remove. For best results, clean immediately as they occur.
- 2.34 Equipment or Light vehicles allowed onto the unprotected track surface must be in good working order and completely leak-free to avoid any oil or gas spills, and be fitted with appropriate wheels, feet, glides, caps, etc.
- 2.35 Equipment or Light vehicles allowed onto the unprotected track surface shall never park on the unprotected track surface.
- 2.36 Use extreme care when removing snow and ice from the track surface. Snow blades should be spring-loaded and equipped with rubber bars to minimize damage in the event of contact with the track surface or with any other unseen obstacle. Always keep the blade at a minimum distance of 6" from the track surface.
- 2.37 Ensure that maintenance of adjacent grassed areas is carried out in such a way as to avoid spilling irrigation water, fertilizers, leaves, and grass clippings onto the track surface.
- 2.38 **IMPORTANT** - Do not allow irrigation water, fertilizers, leaves, grass clippings to accumulate on

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the track surface for extended periods of time as these can leave permanent marks and cause mold and fungus infestation.

- 2.39 **IMPORTANT** - If neglected, weeds will eventually grow up through the asphalt and buckle the surface, causing both cracking and drainage problems.
- 2.40 Keep trees at sufficient distance from the track surface (minimum 10') to guarantee that roots will not invade the sub-base and lift the synthetic surface.
- 2.41 **IMPORTANT** - Mondo accepts no liability for product damage caused, totally or partially, by use of inappropriate footwear, litter, debris, dust, sand, grit, mud, dirt, adhesive tapes, food, beverage, chewing gum, tobacco, open flames, welding, engine fluids, inappropriate athletic equipment and furniture, sharp objects, abrasive surfaces, point loading, excessive distributed loading, vehicles and equipment driving or parking on the unprotected track surface, spilling of irrigation water, fertilizers and grass clippings on the track surface, roots, grass and weeds invading the surface, etc.
- 2.42 Develop and implement a regular schedule of inspection and maintenance.
- 2.43 If the track surface is under warranty, notify Mondo in writing within ten (10) days of discovery of any defect allegedly ascribable to Mondo. In such event, please wait for instructions from Mondo Technical Department before proceeding with any repair.
- 2.44 **IMPORTANT** - Mondo accepts no liability for product defects covered by Mondo's warranty, unless duly notified to Mondo within 10 (ten) days of discovery, and prior to the execution of any repair work.
- 2.45 If the track surface is not under warranty, repair minor damage immediately; report major damages to Mondo Technical Department immediately.

3 Regular Maintenance

- 3.1 Vacuum/blow litter, debris, dust, sand, grit, grass clippings and fertilizers on a routine basis.
- 3.2 Keep grass edges trimmed away from the edge of the track surface.
- 3.3 Scrub and rinse off any mud that accumulates on the track surface.
- 3.4 Sweep the sand back into the sandpits on a regular basis, especially after events or practice.
- 3.5 **IMPORTANT** - Do not allow sand to accumulate on the track surface, as it will abrade and accelerate deterioration of the track surface.
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- 3.7 Clean drains on a regular basis to avoid accumulation of rainwater on the track surface.
- 3.8 Use a water removal roller to remove rainwater from any area affected by poor surface drainage.
- 3.9 **IMPORTANT** - Do not allow rainwater to accumulate for extended periods of time, nor to dry on the track surface, as it will leave permanent marks and might facilitate mold and fungus infestation.
- 3.10 In the event that oily substances, gasoline, solvents, paints, or the like are spilt on the surface, scrub and rinse immediately to eliminate all residues.
- 3.11 In the event of chewing gum, cigarettes, food and drink residues, etc. soiling the surface, scrub and rinse immediately to eliminate all residues. If chewing gum is embedded in the surface, use freezing techniques to remove it.
- 3.12 Remove any firecrackers, smoke bombs or flares that land on the synthetic surface immediately to prevent the surface from blackening, charring or being damaged in any other way that could impair the performance and/or appearance. Wash affected areas immediately.

4 Washing Operations

- 4.1 Wash the floor once a year, or as often as needed depending on local conditions.
- 4.2 **IMPORTANT** - Wait at least 10 days before performing the initial wash.
- 4.3 For best results, wash the track surface in cool weather, when there is cloud coverage, to avoid direct contact with sunlight during cleaning.

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- 4.4 Prior to washing the track surface, always blow/vacuum it to remove all debris.
- 4.5 Use a ride-on autoscrubber, fitted with a non-abrasive cylindrical brush (soft nylon bristles).
- 4.6 **IMPORTANT** - For best results Mondo recommends the use of the Tennant T20 ride-on scrubber with ec- H2O Technology (Electrically Converted Water Technology), equipped with cylindrical brushes. This ensures excellent cleaning results without the use of chemical detergents.
- 4.7 In small areas, or if attempting minor spot cleaning, the surface should be sprayed with a regular garden hose and scrubbed with deck brushes (equipped with soft nylon bristles)
- 4.8 Only use a low foaming cleaner with neutral pH (between 7 and 9) approved by Mondo Technical, such as Diversey Profi, applied in accordance with the manufacturer's instructions.
- 4.9 **IMPORTANT** - All detergents must be solvent-free, phosphate-free and phenol-free. Never use solvents, gasoline or turpentine.
- 4.10 **IMPORTANT** - Prior to adopting a new cleaning product always perform in-house tests on stock samples or small isolated sections of material to ensure the floor will not be damaged.
- 4.11 **IMPORTANT** - Always test the dilution rate on a small area of the surface and adjust as needed for the desired result.
- 4.12 Flood the surface with a hose to facilitate the cleaning.
- 4.13 Apply cleaning solution, followed by a dwell time of 5 to 10 minutes, as per manufacturer instructions.
- 4.14 Scrub surface in multiple directions. As the ride-on scrubber moves down the track surface, rinse soiled water into the gutters with the aid of a garden hose. Do not let the surface dry out.
- 4.15 Rinse the flooring with sufficient quantities of clear water to avoid soap residue/build-up.
- 4.16 Allow flooring to dry thoroughly before using.
- 4.17 **IMPORTANT** - Avoid "burning" the surface of the track by scrubbing the surface while it is dry.
- 4.18 **IMPORTANT** - Insufficient rinsing after the wash can lead to the accumulation of soap residue. This can leave white streaks/marks on the surface of your track surface and negatively affect its appearance. Residues can also entrap dust and dirt.
- 4.19 **IMPORTANT** - Always post wet floor signs, caution tape or barricade before performing wet maintenance.
- 4.20 **IMPORTANT** - Always refer to material safety data sheets (MSDS) for proper personal safety requirements before working with any cleaning product.

5 Winter Maintenance

- 5.1 Periodic snow removal from the track surface may be necessary, and there are precautions that should be taken into consideration. The best way to safely remove the snow from the surface is to use a plastic-tipped snow shovel, or a walk-behind snow blower with a rubber auger, fitted with pneumatic rubber tires or rubber tracks. Gently push the snow off the track surface, careful not to allow any sharp edges of the shovel to dig into the track surface. While engaging in snow removal, it is important to allow a drainage path for the melted snow to follow towards the infield of the track.
- 5.2 The use of mechanical devices on the track surface, such as a snowplow or snow blower with a metal auger, is NOT recommended. These items have the potential to tear or rub the surface, and the twisting or torque pressure from the mechanically driven tires may cause separation of track surface from the asphalt substrate. This may result in a bubble or loosened delaminated areas. This equipment, if not careful, can cut the surface or edge of the track surface. With a rubber track surface, any tears or rips in the surface will allow moisture penetration and may prematurely accelerate the wearing or debonding of the surface.
- 5.3 The use of chemicals designed for snow and ice removal, including but not limited to rock salt, ice melt, products containing sodium chloride, calcium chloride, potassium chloride, magnesium chloride, glycols, or urea, is NOT recommended. Mondo discharges any liability for discoloration of the track surface or other issues that may arise from the use of such products.
- 5.4 When training in freezing temperatures, it is essential to use rubber-soled shoes without spikes, once the track is clear of snow. In extreme cold temperatures, the use of metal spikes may cause

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excessive wear on some types of track surfaces.

6 Stress Areas

- 6.1 Concentrated wear on stress areas - such as the take-offs for long/triple jumps, pole vault and high jump, and starting-block areas - is normal and can occur at any time, depending upon the degree of use, the type of footwear, the length and shape of spikes allowed on the track surface, and the presence of sand or other abrasive materials.
- 6.2 The presence of spike marks does not reduce the athletic performance or the safety of Mondo's track surface products.
- 6.3 Mondo recommends replacing stress areas at least every five years.

7 Lines and Event Markings

- 7.1 Concentrated wear of lane numbers and other lines that are subject to high volumes of traffic, (start lines, finish lines, exchange-zone marks, etc.) is normal and can occur at any time, depending upon the degree of use, the type of footwear, the length and shape of spikes allowed on the track surface, and the presence of sand or other abrasive materials.
- 7.2 Mondo recommends touching up lane numbers and cross lines at least every two years.
- 7.3 Mondo recommends refreshing all lines at least every five years.
- 7.4 **IMPORTANT** - Storage periods exceeding 6 (six) months as of the 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 outdoor 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.