

INSTALLATION INSTRUCTIONS - CS 5.6

Indoor Sport

RUBBER AND PVC SPORT FLOORINGS – SHEET GOODS GLUED ONTO EVERLAY A, EVERLAY PROTECTION AND EVERLAY HIGH PROTECTION

STORAGE AND INSTALLATION MANUAL



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**INDOOR SPORT – RUBBER AND PVC SPORT FLOORINGS - SHEET GOODS
GLUED ONTO EVERLAY A, EVERLAY PROTECTION AND EVERLAY HIGH PROTECTION
UNDERLAYMENT
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.

IMPORTANT

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| 1.3 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. |
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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 +5°C and +40°C.
- 2.4 Rolls must always be stored vertically on a flat surface, and must never be stacked.
- 2.5 Packs must always be stored horizontally on a flat surface, and must never be stacked.
- 2.6 Storage periods exceeding 6 (six) months as of the good invoice date, as well as storage in inappropriate environmental conditions and storage in incorrect position, might cause permanent damage and deformation of the products.

IMPORTANT

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| 2.7 Mondo accepts no liability for damage and defects of products stored for periods exceeding 6 (six) months as of their invoice date and/or in inappropriate environmental conditions and/or in wrong positions. |
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3 Subfloor Inspection

- 3.1 Concrete subfloors must be homogeneous, smooth, hard, and sound.
- 3.2 Over-porous and 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 4m straightedge exceeding 4mm. Depressions or high spots beneath a 1m straightedge shall not exceed 1mm.
- 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.
- 3.6 Concrete subfloors shall be clean and free of cement or plaster crusting.

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- 3.7 If the moisture content of the concrete subfloor, measured using a carbide hygrometer, exceeds 10%, the use of the Mondo Everlay self-supporting system is not permitted and the application of a surface-applied vapour barrier approved by Mondo (e.g. Schomburg ASODUR-SG3), installed in accordance with the manufacturer's instructions, becomes mandatory.
- 3.8 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.
- 3.9 If a skirting must be installed, walls must consist of plasterboards or of plastered masonry. Dry walls might show a gap of maximum 1 cm between the subfloor and the wall. Walls must be straight, smooth, and free of dimples, crusting and interruptions. Corners must be vertical, closed and at right angles.

IMPORTANT

- 3.10 Mondo accepts no liability for product damage caused, totally or partially, by faulty design, construction or performance of the support/underlying/adjacent structures.

4 Subfloor Preparation

- 4.1 Remove any cement or plaster crusting.
- 4.2 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.
- 4.3 Shrinkage cracks and construction joints shall be opened with a diamond blade, cleaned and filled with a specific, rigid epoxy-based product such as Mapei Eporip or Schomburg Asodur-EP/FM, applied according to the manufacturer's instructions.
- 4.4 Saw-cut crack-control joints shall be cleaned and filled with a specific, rigid epoxy-based product such as Mapei Eporip or Schomburg Asodur-EP/FM, applied according to the manufacturer's instructions.

NOTE

- 4.5 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.
- 4.6 Areas affected by dusting shall be treated with appropriate anti-dusting primer such as Mapei Primer G, applied according to the manufacturer's instructions.
- 4.7 Depressions must be leveled with suitable cement-based products, applied according to the manufacturer's instructions.
- 4.8 High spots must be removed through grinding. The grooved surface resulting from grinding shall be levelled with suitable cement-based products, applied according to the manufacturer's instructions.
- 4.9 Radiant floor heating
The heating system has to be turned on before the installation of any floor covering to allow for conditioning of the screed. This is to make sure that after the first heating, the screed is not damaged by the sudden change of temperature or at least could be repaired before proceeding. The operations to carry out are:
1) Do not turn the system on before 28 days from when the screed was cast.
2) The temperature of the heating fluid should be increased by 5 °C per day up to the maximum service temperature.
3) The maximum temperature has to be kept for at least three days (72 consecutive hours).

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- 4) Reduce temperature of 5°C a day to reach the same temperature of the room.
 - 5) Heating must be turned off 48 hours before starting the smoothing underlayment.
 - 6) In derogation from art. 5.2 of this manual: the ambient temperature during installation must be between 18°C and 30°C.
- The heating can be turned on gradually 24 hours after the installation of the floor.

IMPORTANT

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| 4.10 Mondo accepts no liability for product damage caused, totally or partially, by incorrect or insufficient subfloor preparation. |
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5 Environmental and Site Conditions

- 5.1 The installation area shall be enclosed, with all windows installed.
- 5.2 The installation area shall be clean, dry, well ventilated, with constant ambient temperature ranging between +10°C and +30°C.
- 5.3 Materials must be stored at the laying temperature in the installation area for at least 24 (twenty-four) hours before laying commences.
- 5.4 Prohibit traffic and the execution of any activity that might bring dust or other contaminants into the installation area.

IMPORTANT

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| 5.5 Mondo accepts no liability for product damage caused, totally or partially, by installation in inappropriate environmental conditions. |
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6 Installation Procedure

- 6.1 Prior to cutting, trimming, gluing, installing or applying the products, verify that products are free of apparent damage or defects.
- 6.2 In the event of any exceptions to the condition of the products, notify Mondo in writing within 10 (ten) days of discovery. In such event, please wait for the instructions of Mondo before proceeding with the installation.

IMPORTANT

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| 6.3 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. |
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- 6.4 Materials must be stored at the laying temperature in the installation area for at least 24 hours before laying commences.
- 6.5 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. Handle rolls using unrolling trolleys.

IMPORTANT

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| 6.6 Mondo accepts no liability for product damage caused, totally or partially, by incorrect handling inside or outside the installation area. |
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- 6.7 Everlay must be unrolled and dry-laid in the same direction of the sport flooring above, making sure that seams between adjacent rolls of Everlay are offset by a minimum of 10 cm from those of the sport flooring above.
- 6.8 Everlay seams must not be overlapped. Simply push the adjacent sheets together and join them together. To avoid the leakage of adhesive during the bonding phases, an adhesive tape applied to the subfloor beneath the joints is provided.

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INSTALLATION INSTRUCTIONS - CS 5.6

6.9 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.

6.10 To prevent any shifting of the Everlay, it is recommended to dry-lay the Everlay concurrently with the sport flooring above. Start dry-laying the sport flooring after having dry-laid no more than 2 rows of Everlay.

6.11 Sport floorings must be dry-laid and cut to fit prior to any adhesion. Overlap long seams by a minimum of 1cm; The overlap must be carried out by positioning the longitudinal joint intended to serve as a guide on top, while the longitudinal joint to be trimmed must remain underneath. The latter corresponds to the one that, during storage, rests on the pallet. Head seams should be staggered and overlapped by a minimum of 10cm.

IMPORTANT

6.12 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's or the installer's charge, as the case might be.

6.13 To ensure proper acclimatization of the materials, dry-lay the flooring about 24 hours before starting the installation.

6.14 Trim long seams using the edge of one roll as a guide to trim the edge of the adjacent roll. During the operation, it is important that the material stay still. Initially perform a superficial incision along the cutting line, followed by a clean cut through the full thickness of the flooring. After trimming, verify that adjacent rolls match perfectly.

6.15 For the glueing of sport flooring with epoxy-polyurethane or polyurethane adhesives only use products approved by Mondo (PU300, Mapei G19, Mapei G20 and Italkem Kem Pur S/P), applied in accordance with the manufacturer's instructions. Always check the expiration date. We recommend 0,3 kg/sq.m approx.. Those indications are however approximate and must be checked on site.

6.16 Never add alcohol or other solvent or thinner to the adhesive.

IMPORTANT

6.17 Mondo accepts no liability for product damage caused in whole or in part by the addition of alcohol or other solvent or thinner to the adhesive.

6.18 The adhesion of the floor shall start only after trimming all long seams.

6.19 Roll back the first row of material starting at one end to approximately 1 meter from the head seam.

6.20 Apply the adhesive until approximately 1cm from the edge of the roll. When applying adhesive under the adjacent roll, lift the edge of the first roll and apply adhesive 1 cm underneath it.

6.21 After applying the adhesive, unroll the material into the fresh adhesive taking care to match the adjacent roll.

6.22 Press carefully the surface of the material with a smooth spatula taking care not to place the other hand on the floor.

6.23 To complete the installation trim the first edge of the head seams with the assistance of a good straightedge; then cut the second edge by using the first straight cut side as a guide. Cuts must be slightly inclined (beveled) to guarantee perfect head seams.

6.24 When starting the second row proceed as described in item 6.20.

6.25 Sew the seams with masking tape, apply protective strips and load seams with concrete bricks of a minimum weight of 2 kg each, maintained for a minimum duration of 12 hours.

6.26 We remind that loose lay floorings need to be trimmed of 15 mm. approx. all around the perimeter and near all the elements that may create obstacle to the natural dilatation of the sport floorings. The possible use of "L" skirting board must consider the only glueing of the

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upper part (wall side) while the basis of “L” skirting must not be glued, but simply laid , without adhesive, to the flooring.

- 6.27 Sports flooring Vinylsport requires hot welding of the joints using a specific PVC welding rod (images 13-14-15-16), while the Powerplay II rubber sports flooring requires routing and hot sealing of the joints using a specific rubber welding rod. The routing must be carried out in a “U” shape, with a width of approximately 3.5 mm for rods with a 4 mm diameter or approximately 4.3 mm for rods with a 5 mm diameter, to a depth of about 2/3 of the thickness of the surface layer of the flooring, and in any case not exceeding 2 mm and never reaching the elastic sublayer. Carefully clean the routed joints by removing any residual dust, if necessary using a vacuum. To achieve a good result, perform welding with PVC rod at a temperature of approximately 450°C, and sealing with rubber rod at a temperature of approximately 350–400°C, with a working speed of approximately 2 m/min. Trim in two passes: the first using a quarter-moon knife with spacer, leaving approximately 0.7 mm above the floor level, and the second using a Mozart knife or similar, flush with the floor, in order to ensure perfect flatness of the joints once the rod has returned to ambient temperature. (images 13-14-15-16).

IMPORTANT

- 6.28 Mondo accepts no liability for product damage caused, totally or partially, by use of improper on non-authorized installation procedures. Mondo accepts no liability for failed perimeter trimming and/or for improper use of any type of skirting board.

7 Game Lines Application

- 7.1 Game lines shall be painted with two-component paint approved by Mondo (Mondo P10, Mondo P10, Bona SuperSport Line Paint, Chimiver Ecostar 2K HP Colorata TIX, or similar) applied in accordance with the manufacturer’s instructions. Always check the expiration date.

IMPORTANT

- 7.2 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.

- 7.3 Mark off the floor in accordance with the rules of the relevant Sport Federation(s) and apply masking tape on both sides of the lines.
- 7.4 In the case of rubber floors, the surface between the tapes that are to receive paint must be abraded using sand paper to ensure grab of the paint, with the exception for Powerplay surface with PRO² protective coating (identified by “AC” color code) which doesn’t need any preliminary treatment.
- 7.5 Clean the surface between the tapes and apply paint with a 50mm wide sponge roller.
- 7.6 Remove masking tape immediately after the paint has been applied, and has become “tacky” to the touch. The tape will be difficult to remove if paint is allowed to fully cure and ragged edges will likely occur. When removing tape pull it up back against the game line to prevent bleeding/tailing.
- 7.7 No foot traffic shall be allowed on the material for a period of 24 hours after the installation.
- 7.8 Newly installed floors must be protected from traffic and pollution caused by other construction activities. If necessary place protection sheets or planks.

IMPORTANT

- 7.9 Mondo accepts no liability for product damage caused, totally or partially, by other construction activities.

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IMPORTANT

7.10 Mondo accepts no liability for product damage caused, totally or partially, by use of improper on non-authorized installation or line marking procedures.

IMPORTANT

7.11 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 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.

8 Operation and Maintenance

Please refer to the Operation and Maintenance Manual CS 7.1

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