

INSTALLATION MANUAL

2023 version



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ATTENTION:

If there are any concerns or unsure about jobsite or material's condition, please contact our technical department first.



1. SUBFLOOR PREPARATION	RECOMMENDATIONS



1.1 OUTDOOR SUBFLOOR PREPARATION

Unbound base (Gravel aggregate)

The thickness of the unbound base course must be calculated with reference to the deformation modulus of subgrade and the required deformation modulus at the surface of the unbound base course. However, the thickness of the unbound base course must be at least 150mm.

1.1.1 Level

The surface of the unbound base course shall not vary from the stipulated height at any point. by more than ± 15 mm. The maximum gradient of the unbound base course shall be 1% or parallel to the surface of the synthetic covering.

The Final level after compaction shall not vary more than ±4mm over 4 m to be measured using a 4 m strait edge. The surface prior to installation of leveling course shall be primed using medium curing grade MC 70 or similar approved cut back bitumen applied at a rate of between 0.5 and 1.0 liter per square meter.

1.1.2 Bituminous Bound base courses Leveling Course

This layer is made from premixed asphalt with the addition of sand, with the following requirement:

Binding Agent: Bitumen for road construction B60/70 penetration.

Contents of binding agent: Min. 5% of mass, according to aptitude.

Admixtures: Are possible, if the properties resulting from the admixtures comply with the requirements of the standard.

Mixture of aggregates: Mixing of asphalt 2/11 or 2/16mm out of 75-90% of mass, broken stone 2-11 mm or 2-16mm; 3-6% of mass fill-up material below 0.09mm, rest scaled sand 0.09-2mm(broken sand and natural sand) sieve-curve-range.

Marshall-Testing Equipment: Contents of voids: 15-20% of volume.

Compaction: Min.95%, manual positioning min. 94% in relation with the Marshall Testing Equipment. (Determination according to para 6.1.2.4 of DIN 18035).

Thickness: Min.4cm (average thickness) depending upon the maximum granule size of the mixed material.

Wearing Course-Permeable

This layer is made from premixed asphalt with addition of sand, with the following requirements:

Binding Agent: Bitumen for road construction B60/70 penetration.

Contents of Binding Agent: Min 4.5-7.5% of mass, according to aptitude test.

Admixtures: Are possible, if properties resulting from the admixtures comply with the requirements of this standard.

Mixtures of Minerals: Mixture of asphalt 2/5 or 2/8 out of 70-85% of mass, broken stone 2-5mm or 2-8mm; 2-5% of mass fill-up material below 0.09mm rest scaled sand 0.09-2mm (broken sand or broken and natural sand), sieve-curve-range.

Marshall-Testing Equipment: Contents of the hollow space 12-17% of volume.



Compaction: Min 95% manual positioning min.94% in relation with Marshall Testing Equipment (Determination according to para.6.1.2.4 of DIN 18035).

Thickness: Min. 3cm (average value) depending upon the max. granule size of the mixed material.

Evenness of Wearing Course

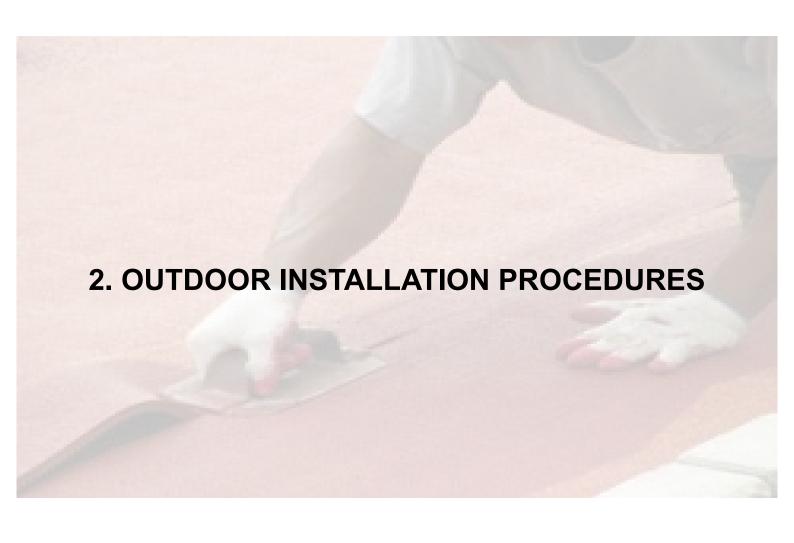
Final surface after compaction must not vary more than 4mm over 4m to be measured using a 4m straight edge.

Note: - If the flatness of subfloor is not good enough, you may need use PU to patch it -The asphalt subfloor must be cured for a minimum of thirty days.

1.2 INDOOR SUBFLOOR PREPARATION

- **-Building Enclosure** The building must be enclosed and weather tight. Permanent windows, doors and roofing are required.
- -Site Conditioning The enclosed building must be conditioned to its completed state. Permanent and operational HVAC and lighting are required. Athletic flooring is very sensitive to heat and humidity. Temporary heat sources such as salamanders, regardless of size are not acceptable. Before proceeding with any work, the subfloor surface must be inspected and. any visible defects on the floor surface such as cracks, bumps, rough areas or variations, all must be clean out or repair and fix it before taking next step.
- -Concrete and/or other Substrates It is important to protect the concrete from dirt, paint, drywall mud, cutting oil, and other foreign materials that will interfere with a proper bond of our adhesive to the concrete. Never chemically remove contaminates, only the use of mechanical means such as shot blasting or grinding should be employed.
- **-RH/moisture, PH** With the building enclosed and conditioned, it is now possible to properly test the concrete.
- **-Flatness** Shall be checked by means of a 10' strait edge. Flatness numbers provided at the time of the concrete pour are not acceptable.
- **-Filling/Patching** No patch work should begin until acceptable RH/moisture numbers are achieved.
- **-Sequencing** All overhead work such as goals, curtains, electrical, and plumbing should be completed prior to the installation of your athletic flooring.
- -Access Adequate roads and sidewalks, whether permanent or temporary, are required. For multi-storey buildings, the use of an elevator or lift is required. Adequate storage and staging space is also required to allow our materials to acclimate.
- -Temperature& moisture condition- The floor temperature must be maintained at a minimum of 65°F(18°C), 48 hours. Prior. to during and 48 hours after the installation. Moisture must be measured using the RH Relative Humidity test method per the ASTM F2170 test standard and must not exceed an RH limit of 85%. If RH levels exceed an 85% RH limit, stop and correct the situation. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.







2.1 OUTDOOR RUNNGING TRACK INSTALLATION PROCEDURE

For Products: OSSTRAX, OSSTRAX-Elite (Roll)

Before installing the material

- 1. Rolled material stored on site should be kept in an upright position at all the times.
- 2. The asphalt subfloor must be cured for a minimum of thirty days.
- 3. The floor temperature must be maintained at a minimum of 65°F(18°C) for 48 hours.
- 4. The asphalt should be dry well and no visible moisture spot on the surface.
- 5. Before proceeding with any work, the subfloor surface must be inspected and any visible defects on the floor surface such as cracks, bumps, rough areas or variations, all must be collected/ repaired prior to next steps.

Installing sport surface

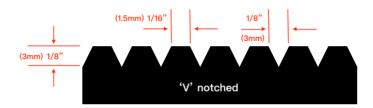
- 1. Do not install the rubber flooring until all jobsite conditions and subfloor preparation are met and completed. Before starting any installation, verify the product for type, thickness, size, color, visual imperfection and color variation, and notify King Arthur of any apparent detects. (Ps: No claims will be accepted after the material has been installed.)
- 2. Allow the material to relax overnight when unrolled.
- 3. Once the above steps have been followed and completed, proceed to make the first. chalk line parallel for the length we would install in. Unroll material in the same direction and follow the numbered sequence.
- 4. End seams should be staggered on the floor and overlapped approximately 6" (15cm). Long seams must overlap by approximately 3/16" (0.5cm)
- 5. Long seams do not need any trimming.
- 6. To make perfect end seams, the first edge of the seam must be trimmed at least 3" (7.6cm) using a good straight edge. Then, cut the second edge by using the straight edge again and add 3/16" (0.5cm) to make a tight seam.
- 7. Dry-lay all material prior to adhesion.

- 1. Protecting the mixing area with plastic, kraft paper or other suitable product.
- 2. A whole row should be glued to the floor before starting another row.
- 3. Roll back, NOT "flop" back the material to the middle of piece or the position of material might be moved and affects the result of joint seam.
- 4. When unrolling material in wet adhesive, always check for a good transfer of adhesive.
- 5. Before unrolling material in wet side, the adhesive should be applied well on the edge of the long seam of side roll, and the edge of end seam also needs to be applied adhesive after unrolling the material.
- 6. Start the work from the same side, then proceed the work roll by roll and side by side,
- 7. Weight must be applied over every seam. Concrete bricks (2"x 4" x 8") are the suitable weights. Completely cover the seams for a minimum period of 12 hours. Weighting the seams with bricks will prevent them from peaking; sometimes it may be necessary to double stack the bricks depending on the thickness and tension in the material.
- 8. The only cause of peaking is a lack of weight on the seams while the adhesive is setting.



- 9. Before weighting the seams, use extreme care to check for and immediately wipe off any excess adhesive that may be oozing through the seams and or any spots of adhesive on the surface, using denature alcohol. It is very difficult to remove adhesive when it has dried.
- 10. End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressed seams will cause peaking.
- 11. Always double or triple stack bricks on top of end seams. If the bricks have a tendency to tilt on top of the seam, this means that more weight must to be applied on the seams.
- 12. Using right notched trowel will ensure a proper transfer of adhesive to cover the backing of the floor.

We recommend the is kind of trowel for the material has waffle backing. Trowel size 1/8" x1/8" x 1/16" **V** notch





2.2 OUTDOOR SPORT FLOOR INSTALLATION PROCEDURE

Suitable for Products: TruCourt (Roll)

Before installing the material

- 1. Rolled material stored on site should be kept in an upright position at all the times.
- 2. The asphalt subfloor must be cured for a minimum of thirty days.
- 3. The floor temperature must be maintained at a minimum of 65°F(18°C) for 48 hours.
- 4. The asphalt should be dry well and no visible moisture spot on the surface.
- 5. Before proceeding with any work, the subfloor surface must be inspected and any visible defects on the floor surface such as cracks, bumps, rough areas or variations, all must be collected/ repaired prior to next steps.

Installing sport surface

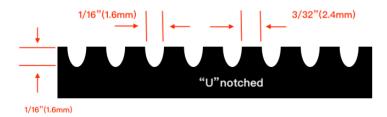
- 1. Do not install the rubber flooring until all jobsite conditions and subfloor preparation are met and completed. Before starting any installation, verify the product for type, thickness, size, color, visual imperfection and color variation, and notify King Arthur of any apparent detects. (Ps: No claims will be accepted after the material has been installed.)
- 2. Allow the material to relax overnight when unrolled.
- Once the above steps have been followed and completed, proceed to make the first chalk line parallel for the length we would install in. Unroll material in the same direction and follow the numbered sequence.
- 4. End seams should be staggered on the floor and overlapped approximately 6" (15cm). Long seams must overlap by approximately 3/16" (0.5cm)
- 5. The long side of material might curve or damage from upright position. Long seams are always suggested to be trimmed using a good strait edge to get a good perfect joint seam.
- 6. To make perfect end seams, the first edge of the seam must be trimmed at least 3" (7.6cm) using a good straight edge. Then, cut the second edge by using the straight edge again and add 3/16" (0.5cm) to make a tight seam.
- 7. Dry-lay all material prior to adhesion.

- 1. Protecting the mixing area with plastic, kraft paper or other suitable product.
- 2. A whole row should be glued to the floor before starting another row.
- 3. Roll back, NOT "flop" back the material to the middle of piece or the position of material might be moved and affects the result of joint seam.
- 4. When unrolling material in wet adhesive, always check for a good transfer of adhesive.
- 5. For outdoor project, before unrolling material in wet side, the adhesive should be applied well on the edge of the long seam of side roll, and the edge of end seam also needs to be applied adhesive after unrolling the material.
- 6. Start the work from the same side, then proceed the work roll by roll and side by side,
- 7. Weight must be applied over every seam. Concrete bricks (2"x 4" x 8") are the suitable weights. Completely cover the seams for a minimum period of 12 hours. Weighting the seams with bricks will prevent them from peaking; sometimes it may be necessary to double stack the bricks depending on the thickness and tension in the material.

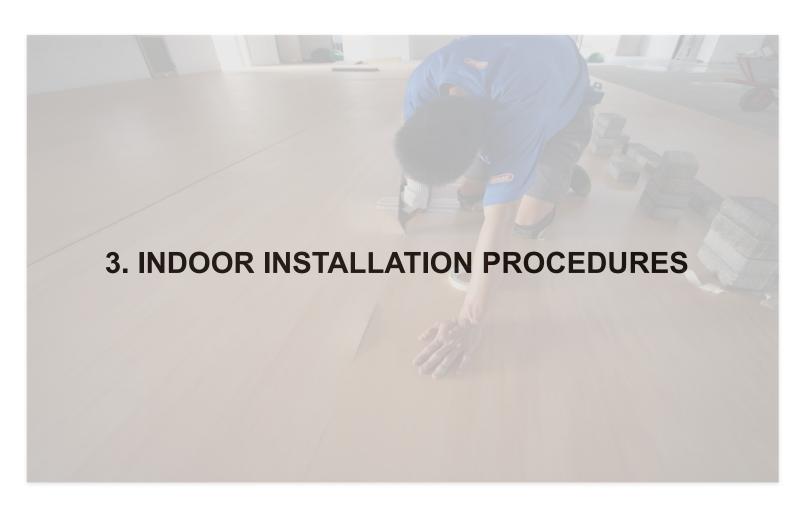


- 8. The only cause of peaking is a lack of weight on the seams while the adhesive is setting.
- 9. Before weighting the seams, use extreme care to check for and immediately wipe off any excess adhesive that may be oozing through the seams and or any spots of adhesive on the surface, using denature alcohol. It is very difficult to remove adhesive when it has dried.
- 10. End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressed seams will cause peaking.
- 11. Always double or triple stack bricks on top of end seams. If the bricks have a tendency to tilt on top of the seam, this means that more weight must to be applied on the seams.
- 12. Using right notched trowel will ensure a proper transfer of adhesive to cover the backing of the floor.

We recommend the is kind of trowel for the material has smooth backing. Trowel size 1/16" x1/16" x 3/32" **U** notch









3.1 INDOOR RUNNGING TRACK INSTALLATION PROCEDURE

Suitable for Products: OSSTRAX, OSSTRAXX-Elite (Roll)

Before installing the material

- 1. Rolled material stored on site should be kept in an upright position at all the times.
- 2. The concrete or asphalt subfloor must be cured for a minimum of thirty days.
- 3. The floor temperature must be maintained at a minimum of 65°F(18°C), 48 hours. Prior to during and 48 hours after the installation. The contractor must make certain that the moisture vapor emission of the subsurface does not exceed 3 lbs/1000ft²(1.36kg/93m²) in 24 hours. Using the calcium chloride test as per ASTM F1869-98. (A moisture test result will confirm whether the subfloor is dry enough to proceed with the installation)
- 4. Before proceeding with any work, the subfloor surface must be inspected and any visible defects on the floor surface such as cracks, bumps, rough areas or variations, all must be collected/ repaired prior to next steps.

Installing sport surface

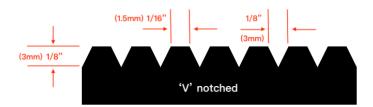
- 1. Do not install the rubber flooring until all jobsite conditions and subfloor preparation are met and completed. Before starting any installation, verify the product for type, thickness, size, color, visual imperfection and color variation, and notify King Arthur of any apparent detects. (Ps: No claims will be accepted after the material has been installed.)
- 2. Allow the material to relax overnight when unrolled.
- 3. Once the above steps have been followed and completed, proceed to make the first chalk line parallel for the length we would install in. Unroll material in the same direction and follow the numbered sequence.
- 4. End seams should be staggered on the floor and overlapped approximately 6" (15cm). Long seams must overlap by approximately 3/16" (0.5cm)
- 5. Long seams do not need any trimming.
- 6. To make perfect end seams, the first edge of the seam must be trimmed at least 3" (7.6cm) using a good straight edge. Then, cut the second edge by using the straight edge again and add 3/16" (0.5cm) to make a tight seam.
- 7. Dry-lay all material prior to adhesion.

- 1. Protecting the mixing area with plastic, kraft paper or other suitable product.
- 2. A whole row should be glued to the floor before starting another row.
- 3. Roll back, NOT "flop" back the material to the middle of piece or the position of material might be moved and affects the result of joint seam.
- 4. When unrolling material in wet adhesive, always check for a good transfer of adhesive.
- 5. Before unrolling material in wet side, the adhesive should be applied well on the long seams of side roll, and end seam also needs to be applied adhesive after unrolling the material.
- 6. Start the work from the same side, then proceed the work roll by roll and side by side,
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- 8. The only cause of peaking is a lack of weight on the seams while the adhesive is setting.
- 9. Before weighting the seams, use extreme care to check for and immediately wipe off any excess adhesive that may be oozing through the seams and or any spots of adhesive on the surface, using denature alcohol. It is very difficult to remove adhesive when it has dried.
- 10. End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressed seams will cause peaking.
- 11. Always double or triple stack bricks on top of end seams. If the bricks have a tendency to tilt on top of the seam, this means that more weight must to be applied on the seams.
- 12. Using right notched trowel will ensure a proper transfer of adhesive to cover the backing of the floor.
- 13. Even through the end seam may look good, we recommend always apply painter's tape to keep it perfect closed before the adhesive dried.

We recommend the is kind of trowel for the material has waffle backing Trowel Size 1/8" x 1/8" x 1/16" **V** notch.





3.2 INDOOR SPORT FLOOR INSTALLATION PROCEDURE

Suitable for Products: TruCourt, TeamPlay, ComPact system. (Roll)

Before installing the material

- 1. Rolled material stored on site should be kept in an upright position at all the times.
- 2. The concrete or asphalt subfloor must be cured for a minimum of thirty days.
- 3. The floor temperature must be maintained at a minimum of 65°F(18°C), 48 hours. Prior to during and 48 hours after the installation. The contractor must make certain that the moisture vapor emission of the subsurface does not exceed 3 lbs/1000ft²(1.36kg/93m²) in 24 hours. Using the calcium chloride test as per ASTM F1869-98.(A moisture test result will confirm whether the subfloor is dry enough to proceed with the installation)
- 4. Before proceeding with any work, the subfloor surface must be inspected and any visible defects on the floor surface such as cracks, bumps, rough areas or variations, all must be collected/ repaired prior to next steps.

Installing sport surface

- 1. Do not install the rubber flooring until all jobsite conditions and subfloor preparation are met and completed. Before starting any installation, verify the product for type, thickness, size, color, visual imperfection and color variation, and notify King Arthur of any apparent detects. (Ps: No claims will be accepted after the material has been installed.)
- 2. Allow the material to relax overnight when unrolled.
- 3. Once the above steps have been followed and completed, proceed to make the first chalk line parallel for the length we would install in. Unroll material in the same direction and follow the numbered sequence.
- 4. End seams should be staggered on the floor and overlapped approximately 6" (15cm). Long seams must overlap by approximately 3/16" (0.5cm)
- 5. The long side of material might curve or damage from upright position. Long seams are always suggested to be trimmed using a good strait edge to get a good perfect joint seam.
- 6. To make perfect end seams, the first edge of the seam must be trimmed at least 3"(7.6cm) using a good straight edge. Then, cut the second edge by using the straight edge again and add 3/16" (0.5cm) to make a tight seam.
- 7. Dry-lay all material prior to adhesion.

- 1. Protecting the mixing area with plastic, kraft paper or other suitable product.
- 2. A whole row should be glued to the floor before starting another row.
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- 5. Before unrolling material in wet side, the adhesive should be applied well on the long seams of side roll, and end seam also needs to be applied adhesive after unrolling the material.
- 6. Start the work from the same side, then proceed the work roll by roll and side by side,
- 7. Weight must be applied over every seam. Concrete bricks (2"x 4" x 8") are the suitable weights. Completely cover the seams for a minimum period of 12 hours. Weighting the



- seams with bricks will prevent them from peaking; sometimes it may be necessary to double stack the bricks depending on the thickness and tension in the material.
- 8. The only cause of peaking is a lack of weight on the seams while the adhesive is setting.
- 9. Before weighting the seams, use extreme care to check for and immediately wipe off any excess adhesive that may be oozing through the seams and or any spots of adhesive on the surface, using denature alcohol. It is very difficult to remove adhesive when it has dried.
- 10. End seams must be adjusted without applying too much pressure while ensuring that they are perfectly closed. Pressed seams will cause peaking.
- 11. Always double or triple stack bricks on top of end seams. If the bricks have a tendency to tilt on top of the seam, this means that more weight must to be applied on the seams.
- 12. Using right notched trowel will ensure a proper transfer of adhesive to cover the backing of the floor.
- 13. Even through the end seam may look good, we recommend always apply painter's tape to keep it perfect closed before the adhesive dried.

We recommend the is kind of trowel for the material has smooth backing Trowel size 1/16" x1/16" x 3/32" **U** notch

