

1. Manufacturer

KING ARTHUR INDUSTRIES CO., LTD.

No.512, Chioufen Rd, Luntze Tsun, Yung-Ching Hsaing, ChangHua Hsien, Taiwan

TEL: +886-4-8223131 FAX: +886-4-8229956, E-mail: info@osst-surfaces.com

2. Product name

OSSTRAX

2.1 Product description

- **2.1.a** Prefabricated synthetic athletic track surface vulcanized in two layers construction consists of EPDM, Mineral fillers, stabilizing agents, color pigments, none permeable, textured wear resistant surface layer and waffle like shock absorbing layer bonded by vulcanization.
- **2.1.b** Color : 8 standard colors (see catalogue) .
- 2.1.c Thickness : 8mm, 10mm, 13mm (WA certified track surface)
- 2.1.d Finish : Track embossing.
- **2.1.d** Dimensions : in Roll : Width.

Length

100cm to 140cm (3' 4" to 4'7.") 6M to 15M (19'8" to 49'2.6")

2.2 Product properties

| | | | Thickness | | |
|---|---------------------|-----------------------------|--------------|-------------|----------------------|
| Test items | Test Methods | Requirements | 8mm | 10mm | 13mm |
| Elongation at break | ASTM D412 | ≧40% | ≧190% | ≧210% | ≧210% |
| Tensile Strength | ASTM D412 | ≧75psi | ≧120psi | ≧120psi | ≧120psi |
| Hardness of wear layer | ASTM D2240 | ** | 43±5 | 43±5 | 43±5 |
| Hardness of backing | ASTM D2240 | ** | 33±5 | 32±5 | 34±5 |
| Abrasion resistance (H18,1KG,1000cycles) | ASTMD3389 | ≤2.0g | ≤1.3g | ≤1.3g | ≤1.3g |
| Resistance of Chemicals | ASTMF925 | ≤Slight Change | No change | No change | No change |
| Color Heat stability | ASTMF1514 | ≤8.0∆E | 0.61 | 0.61 | 0.61 |
| Color Light stability | ASTMF1515 | ≤8.0∆E | 1.74 | 1.74 | 1.74 |
| Shock Absorption | WA(EN14808) | 35~50% | 25(±3) | 30(±3) | 38(±3) |
| Vertical deformation | WA(EN14809) | 0.6~2.5mm | 1.3(±0.3) | 1.6(±0.3) | 1.9(±0.3) |
| Friction (Dry) (wet) | WA(EN13036-4) | ≥80 ≧47 or 0.5u | ≥100 ≧47 | ≥100 ≧47 | ≥100 ≧47 |
| Elongation at break | WA (EN12230) | ≧40% | ≧190% | ≧190% | ≧190% |
| Tensile Strength | WA (EN12230) | ≧0.4Mpa | ≧0.6 | ≧0.6 | ≧0.6 |
| Spike resistance -Tensile strength - Elongation | EN14810 | not differ more than 20% | ** | ** | ≤20%∆Tr% ≤20%∆Eb% |
| REACH SVHC items | REACH | Not detected | Not detected | | |
| Sum of 18 PAHs (Polycyclic Aromatic | Af PS GS 2014:01 | Not detected | Not detected | | |

| Hydrocarbons) | | | | | |
|---------------------------|---------|-----------|----|----|-----------|
| Synthetic surfaces | EN14877 | Compliant | ** | ** | Compliant |
| requirements for outdoor | | | | | |
| sports areas | | | | | |
| World Athletics certified | WA | Compliant | ** | ** | Certified |
| surface | | | | | |

Results obtained from manufacturing controls can vary between production lots and don't constitute representations or warranties as to any particular product lot. KING ARTHUR COMPANY keeps the right to modify the characteristics of the products anytime.

3. Adhesive

Adhesive: Two component polyurethane-epoxy glue.

*Please contact the glue manufacturer for product recommendation based on project location.

4. Delivery and Storage

- **4.1** The general contractor shall provide a secure, clean and dry storage location, which is protected from exposure to harmful weather conditions at 65 to 104 degrees F (18 to 40 degrees °C).
- 4.2 Store sports flooring rolls in original wrappings, and label intact until time of installation.
- **4.3** Keep the rolls are well positioned in an upright position with pallet, and don't stack anything on top includes stack rolls on top of each other.

5. References

5.1 Association(s)

WA (World Athletics)

5.2 ASTM International (ASTM)

ASTM D412: Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension. ASTM D2240: Standard Test Method for Rubber Property (Durometer Hardness).

ASTM D3389: Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader). ASTM F925: Standard Test Method for Resistance to Chemicals of Resilient Flooring.

ASTM F1514: Standard Test method for Measuring Heat Stability of Resilient Flooring by Color Change.

ASTM F1515: Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change.

5.3 European Committee for Standardization (EN)

EN 13036-4: Road and airfield surface characteristics. Test methods -the pendulum test for friction.

EN 14808: Surfaces for sports areas. Determination of shock absorption.

EN 14809: Surfaces for sports areas. Determination of vertical deformation.

EN 12235: Surfaces for sports areas - Determination of vertical ball behavior

5.4 GREENGUARD Environmental Institute (GEI)

GREENGUARD Certification: Compliant with stringent emission levels for over 360 VOCs, plus a limit on the total of all chemical emissions combined (TVOC).

GREENGUARD Gold Certification: Compliant with safety factors to account for sensitive individuals (such as children and the elderly) and ensure that a product is acceptable for use in environments such as schools and healthcare facilities.

5.5 REACH:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing. European Chemicals Agency.

5.6 SVHC:

Candidate List of substances of very high concern for Authorization (published in accordance with Article 59(10) of the REACH Regulation)