

### 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

ComPact-Stone

#### 2.1 Product description

2.1.a Prefabricated sport surface vulcanized in two layers construction consists of EPDM, naturel rubber, mineral fillers, stabilizing agents, color pigments, none permeable, textured wear resistant surface layer and shock absorbing layer bonded by vulcanization.

2.1.b Color : 4 standard colors ( see catalogue )

2.1.c Thickness: 6mm, 8mm, 10mm

2.1.d Finish : Textured surface with solid color

2.1.e Dimensions: in Roll, Width. 100cm to 125cm (3' 3.4" to 4'1.2"), length 6M to 15M (19'8" to 49'2.6")  
in tile, 100cm x 100cm (3' 3.4")

#### 2.2 Product properties

Test items	Test Methods	Requirements	Thickness		
			6mm	8mm	10mm
Elongation at break	ASTM D412	≥40%	220%	220%	220%
Tensile Strength	ASTM D412	≥75psi	>300 psi	>300 psi	>300 psi
Hardness of full layer	ASTM D2240	**	65±3	65±3	65±3
Abrasion resistance (H18,1KG,1000cycles)	ASTM D3389	≤2.0g	<0.8g	<0.8g	<0.8g
Friction	ASTM E303	>80	>105	>105	>105
Fungi resistance	ASTM G21-15	Under Level1	Level 0	Level 0	Level 0
Resistance of Chemicals	ASTM F925	≤Slight Change	No change	No change	No change
Reducing Impact Sound Transmission	ASTM E989	**	**	**	ΔIIC = 26
Improvement of impact sound insulation	ISO 717, 10140	**	**	**	ΔL <sub>w</sub> =22 dB
TVOC	ASTM D5116	0.19mg/m <sup>2</sup> .hr	0.031	0.031	0.031
Formaldehyde	ASTM D5116	0.08mg/m <sup>2</sup> .hr	ND	ND	ND
Critical Radiant Flux	ASTM E648	≥0.1w/cm <sup>2</sup>	Compliant		
Resistance of Indentation	EN1516	≤0.5mm	<0.4mm	<0.4mm	<0.4mm
Rolling Load resistance	EN1569	No deterioration	Compliant		
Resistance to impact	EN1517	no cracking	No damage		
Color Heat stability	ASTM F1514	≤8.0ΔE	Compliant		
Color Light stability	ASTM F1515	≤8.0ΔE	Compliant		
GREENGUARD Certification	GREENGUARD	Compliant	Compliant		
GREENGUARD Gold	GREENGUARD	Compliant	Compliant		
REACH SVHC items	REACH	Compliant	Compliant		

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 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)**

ASTM International (ASTM)

#### **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.
- ASTM E303: Standard Test Method for Measuring Surface Frictional Properties
- ASTM E648: Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- ASTM E989: Standard Classification for Determination of Single-Number Metrics for Impact Noise
- ASTM D5116: Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products

#### **5.3 European Committee for Standardization (EN)**

- EN 13036-4: Road and airfield surface characteristics. Test methods -the pendulum test for friction.
- EN 1517: Surfaces for sports areas. Determination of Resistance to impact.
- EN 1516: Surfaces for sports areas. Determination of Resistance to indentation.
- EN 1569: Surfaces for sports areas. Determination of Resistance to a rolling load.

#### **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)