

## SSUK PULASTIC OVERLAY

Upgrading is becoming increasingly popular as a sports flooring solution. By installing a new floor over the top of your existing base, upgrading offers a quick, cost effective and more sustainable approach to improving the performance of your sports floor.



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The table indicates the increase in shock absorption that can be achieved by upgrading an existing point-elastic floor.

### Top Layer Specification

### Increase in Shock Absorption

Classic 60 (ECO)	6%
Classic 70 (ECO)	8%
Classic 90 (ECO)	12%
Classic 110 (ECO)	16%

Note: These results are indicative based on laboratory tests carried out on new floors.

**To assess whether your existing sports floor is suitable for upgrading, we'll carry out a detailed site inspection looking at:**

- General condition of your existing floor
- Adhesion of the existing floor to the concrete (loose spots)
- The floor height/depth of your existing/new floor
- Adjustability of any sockets you may have
- Shock absorption of your existing floor
- The expected Shock absorption with different overlays

### General condition of your existing floor

We will visually inspect your floor to determine whether it is flat enough to be upgraded and to identify any seams or loose areas. We'll also look at its maintenance history to identify any potential problems.

### Adhesion

We will survey the floor to identify any loose sections. A loose spot larger than 40x40cm will be marked in the report. If more than 10% of the existing surface is loose, the floor cannot be upgraded. If 5 to 10% is loose, a second assessment will be carried out. If less than 5% of the floor is loose, upgrading can go ahead.

### Floor height

We'll determine whether the floor can be raised at doorways, indicating whether thresholds must be placed or whether doors must be adjusted.

### Adjustability of Sockets

We will assess if existing sockets can be retained. layer samples. This will enable us to determine which of the upgrade options will make the floor compliant with the sports floors standard.

Please note that this approach mainly focuses on the shock absorption of point-elastic floors. For combi and area-elastic floors, the vertical deformation and ball bounce must also be measured in a minimum of four places.

From our survey, we'll be able to determine whether your existing sports floor is suitable for upgrading and which top layer specification will make it compliant with the sports floors standard. Please note that we always allow for a margin of 1% in our advice.

To comply with Class 3 an upgraded floor must demonstrate at least 26% shock absorbency. For Class 2 it is 31% and for Class 1 it is 41%.

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**Example 1:**

An existing Classic 90 sports floor (x-axis on the graph) is upgraded with a Classic 70 top layer (the green line on the graph). The upgraded floor reaches a shock absorbency of 28%, becoming a P1 floor under the EN14904.

**Example 2:**

An existing Classic 90 sports floor (see the x-axis on the graph) is upgraded with a Classic 90 top layer (the blue line on the graph). The upgraded floor now achieves a shock absorbency of 37%, becoming a XX floor under the EN14904.



**Seamless point-elastic floor covering for multi-purpose gymnasia and sports halls**

<b>Product Description</b>	<p>A multi-purpose sports floor providing very good comfort and safety for training and competition combined with excellent resistance to mechanical loads</p> <p>Approved according the EN 14904 standard in category P1 and the N.O.C.*N.S.F. Class 3 (Dutch Olympic Committee)</p> <p>Approved by the F.I.V.B. (International Volleyball Federation), F.I.B.A. (International Basketball Federation) and I.H.F. (International Handball Federation) and BWF (Badminton World Federation)</p> <p>Manufactured under ISO 9001 for quality control and ISO 14001 for environmental care</p>
<b>Uses</b>	<p>Indoor</p> <p>Training and competition of all common international ball games and badminton</p> <p>Physical education</p> <p>Cultural events, exams, exhibitions and a variety of non-athletic activities typical for multi-purpose halls.</p>
<b>Characteristics / Advantages</b>	<p>Very good resilience for comfort and injury prevention</p> <p>Seamless, non-porous and smooth surface for easy maintenance, repair and resurface procedures</p> <p>Sustainability through high content of recycled and renewable raw materials in combination with lasting performance through outstanding mechanical strength and wear resistance</p> <p>Water based finish for very low odour during installation and maximum indoor clean air protection during use</p> <p>Outstanding mechanical strength and wear resistance for minimum life cycle cost and maximum usability (return on investment)</p> <p>Outstanding ball bounce</p> <p>Wide colour selection with outstanding colour fastness</p> <p>No glare for clear visibility of the durable line marking</p> <p>Excellent contact noise reduction (acoustic isolation)</p> <p>Outstanding thermal insulation</p>

<b>Colours</b>	16 Classic colours and 16 Design colours as per manufacturers colour brochure		
<b>Technical Data /System</b>	Nominal thickness	11 mm	
	Shock absorption	+ 28 %	EN 14808
	Vertical Deformation	1,4mm	EN 14809
	Linear Friction (dry)	98	EN 13036-4
	Linear Friction (damp)	0,3	Leroux
	Ball Bounce	99%	EN 12235
	Gloss	3%	EN 2813
	Resistance to rolling load	> 1500 N	EN 1569
	Resistance to impact	> 800 gr @ 10°C > 1.200 gr @ 17°C	EN 1517 EN 1517
	Resistance to indentation	0,35 mm @ 5 min 0,15 mm @ 24 hrs	EN 1516 EN 1516
	Resistance to wear	150 mg	EN ISO 2813
	Flammability	B <sub>fl</sub> -S <sub>1</sub>	EN 13501-1
<b>Components</b>	V.O.C. content – adhesive	Solvent free	
	V.O.C. content – finish	0,01 gr/lit (EU) 45 gr/lit (US)	2004/42/EG ASTM D 3960
	Resin composition	Free of solvents and heavy metals	
	Elongation at break – structure	200%	DIN 53455
	Tensile strength – structure	10 N/mm <sup>2</sup>	DIN 53455
	Tear strength – structure	25 N/mm	DIN 53515
<b>Installation Conditions / Limitations</b>	Installation shall be carried out corresponding to manufacturers installation instructions, by a manufacturer trained installer		
	The subfloor shall correspond to manufacturers document “requirements prior to the installation of a SSUK Pulastic sports floor”		
<b>Cleaning / Maintenance</b>	For maximum safety and sports performance please refer to the ‘SSUK regular cleaning of indoor sports floors instruction sheet’ available to download from our website <a href="http://sportssurfacesuk.com/refurbishment-and-maintenance">sportssurfacesuk.com/refurbishment-and-maintenance</a>		
<b>Value Base</b>	All technical data stated in this System Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control		

## CE Labelling

The harmonized European Standard EN 14904 “Surfaces for sports areas – Indoor surfaces for multi-sports use” specifies requirements for multi-purpose indoor sports surfaces.

Seamless resin floor systems fall under this specification. They have to be CE-labelled as per Annex ZA.3, Figure ZA.1 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106).

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### EN 14904

#### SSUK Pulastic Overlay:

#### Reaction to fire:

#### Friction:

#### Shock absorbency:

#### Formaldehyde emission:

Seamless polyurethane floor covering with recycled rubber shockpad, for use in gymnasias and sports halls.

Class Bfl-S1

98 (EN 13036-4)

28% (EN 14808)

Class E1



## Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of SSUK Pulastic products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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