



Herculan SR National sports surfaces are seamless, cushioned, Spike Resistant sports surfaces with point elastic properties.

Herculan SR National running tracks have been tested by ITS Switzerland and meet the technical requirements for use in all international athletic competitions. **Herculan SR National** is also suitable for all field events like long/triple jump, pole vault, hammer & discus throw, shot put and high jump.

Herculan SR National is certified by IAAF and meets all DIN 18035 part 6 and EN 18 14877 requirements.

The high performance seamless surface of the **Herculan SR National** system is based on an in-situ installed rubber base layer cover with two layers of a spray applied structural elastomeric coating.

The **Herculan SR National** can be installed as a water permeable or as a water impermeable surface, is UV resistant, spike resistant and therefore suitable for running tracks, school play grounds and jogging tracks.

All Herculan Sports Surfaces are easy to maintain and can be resurfaced when required.



Herculan SR National

Type of sports surface	All weather cushioned outdoor sports surface with point elastic and dimensionally stable properties.
Aim	Suitable for all running tracks and all outdoor sports, refer Herculan System Selection Chart. Has been tested to and conforms with the technical requirements for use in all national and international competitions. Herculan SR National is IAAF Certified.
Description of the sports surface	Water impermeable and spike resistant. Structural sprayed elastomeric polyurethane layer on an in-situ installed polyurethane bonded rubber granulate sub-base layer.

Herculan SR National System properties:

Athlete surface interaction & System properties of the sports surface:

	0°C	+23°C	+40°C
Force Reduction (EN 14808 DIN 18032-2)	33 %	41 %	43 %
Vertical Deformation (EN 14809 DIN 18032-2)	1.0 mm	1.6 mm	1.8 mm
Water Permeability (EN 12616)	0.043 cm/sec		
Sliding Coefficient (DIN 18035-6/TRRL) Dry	0.62		
Sliding Coefficient (DIN 18035-6/TRRL) Wet	0.51		
Slip Resistance (EN 13036-4) Dry	105		
Slip Resistance (EN 13036-4) Wet	84		
Thickness (EN 1969)	14.5 mm		
Vertical Ball Behavior (EN 12235 DIN 18032-2)	98 %		
Compression set (ASTM D-395-B)	1.9 %		
Compression strength (N/S1.1)	> 4 N/mm ² (> 4 MPa)		
Resistance to Impact (EN 1517-1999)	> 12 Nm		
Resistance against static load (24 hours)	25 kg/cm ²		
Resistance to indentation (EN 1516)	< 0,32 mm		
Resistance to a rolling load (EN 1569:1999)	> 1500 N		
Resistance to Fire (DIN 51960)	not flammable - class 1		
Resistance to Fire (BS 476 Part 7 :1997)	not flammable class 3		
Resistance to Fire (EN-ISO 11925:2002 & 9239-1:2002)	C _{FL} - s1		
Resistance to stubbed and burning cigarettes (EN 1399)	Resistant no damage		
Spikes Resistance (EN 140810 - DIN 18035-6)	Class 1		
Tensile Strength (EN ISO 527-1, DIN 54455)	0.66 N/mm ² (0.66 MPa)		
Elongation at break (EN ISO 527-1, DIN 54455)	> 42 %		
Resistance to Wear (EN-ISO 5470-1, ASTM C-501)	Taber H18 1 kg 1000 cycles 1.1 gram		
Relative Abrasion	rA = 1.2		
Light (Color) Fastness (DIN 54004)	5 (good)		
Resistance to UV light (EN 14836)	Excellent, color change < 4 (EN ISO 20105-A02)		
Environmental Compatability (DIN V 18035-6 table6, lines 1-13)	Passed		