



**Herculan MF Blue**



**ECO-FRIENDLY**



**Herculan MF Blue** sports surfaces are eco-friendly, seamless and cushioned Multi Functional floors with point elastic properties. The **Herculan MF Blue** system is setting the standards for sustainability in sports.

**Herculan MF Blue** sports surfaces meet all the latest European Standards for multi purpose indoor sports surfaces, the EN 14904:2006. **Herculan MF Blue** quality sports surfaces are accredited with the CE Certificate of Conformity. The **Herculan MF Blue** systems are listed as certified and approved sports floors in the Dutch Olympic Committee's sports flooring list.

The **Herculan MF Blue** sports surfaces are certified by the International Handball Federation [IHF] and the Badminton World Federation [BWF].

The **Herculan MF Blue** system passes the German AgBB/DIBt [Committee Health-related Evaluation of Building Products] emission test and is rated as safe for indoor building materials with a negligible rate of VOC emission.

**Herculan MF Blue System Advantages**

- Made of environmentally safe raw materials.
- Offers the highest level of comfort, performance and safety to sportsmen.
- Durable and cost effective.
- Available in a wide range of colors.
- Includes a lightweight and eco-friendly mat which offers convenience and ease of installation.

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





<b>Types of Sports Surface</b>	Multi-purpose point-elastic indoor sports surface.
<b>Aim</b>	Suitable for all indoor sports and multi functional use, see Herculan Systems Selection Chart.
<b>Description of the Sports Surface</b>	2 or 3 mm of coated polyurethane layer on a bonded MF Cushion Blue Layer.

### HERCULAN MF BLUE SYSTEM PROPERTIES

#### Athlete Surface Interaction

System	Vertical Deformation [EN 14809, DIN 18032-2]	Force Reduction [EN 14808, DIN 18032-2]	Energy Restitution [EN 14808]
Herculan MF Blue 28	1.4 mm	28 %	68 %
Herculan MF Blue 33	1.6 mm	33 %	69 %
Herculan MF Blue 38	1.7 mm	38 %	69 %

#### System Properties of the Sports Surface

Vertical Ball Behavior [EN 12235-DIN 18032-2]	99 %
Compression Set [ASTM D-395-B]	1.9 %
Compression Strength [N/S1.1]	> 400 N/mm <sup>2</sup> [> 400 MPa]
Resistance to Impact [EN 1517-1999]	> 16 Nm
Resistance against Static Load [24 hours]	25 kg/cm <sup>2</sup>
Resistance to Indentation [EN 1516]	< 0.47 mm
Resistance to a Rolling Load [EN 1569:1999]	> 1500 N, < 0.3 mm
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]	B <sub>FL</sub> – S1
Resistance to Stubbed and Burning Cigarettes [EN 1399]	Resistant. No damage
Formaldehyde Emission [EN 717-1]	Class E1. No Formaldehyde
AgBB/DiBt: Health-related Evaluation of Emissions of Volatile Organic Compounds [VOC and SVOC]	Approved for Indoor usage
Sum of VOC without NIK after 27 days	< 0.05 mg/m <sup>3</sup>
Sum of Carcinogenic Substances after 27 days	< 0.001 mg/m <sup>3</sup>

#### Properties of the Herculan EX 800 Base Layer

Surface Hardness [DIN 53505, EN ISO 868]	Shore A = 76
Tensile Strength [EN ISO 527-1, DIN 54455]	11 N/mm <sup>2</sup> [11 MPa]
Elongation at break [EN ISO 527-1, DIN 54455]	> 190 %
Tear Resistance [DIN 53515]	25 N/mm

#### Properties of the Herculan PU 100W Surface Layer

Surface Texture [N/F 12.1 Macro, Micro, Porosity]	Fine, Polished, Closed
Surface Color	See Herculan Color Chart
Resistance to Wear [EN ISO 5470-1, ASTM C-501]	Taber H18 1 kg 1000 cycles 20 mg
Gloss [EN ISO 2813-85°]	2 %
Friction [EN 13046-4]	Dry 90 at 20°C
Friction [EN 14837 Leroux]	Dry 0.7 at 20°C
	Wet 0.4 at 20°C
Sliding Qualities [N/F 6.1]	Dry 0.4 at 20°C
	Wet 0.2 at 20°C
Light [Color] Fastness [DIN 54004]	8 [Excellent]
Specular [Light] Reflectance [EN 13745]	0.1 – 0.3 [Color dependent]

#### Herculan Sports Surfaces B.V.

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