



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], the Badminton World Federation [BWF] and the FIBA Associate [FIBA].

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.



www.herculan.com





Types of Sports Surface	Multi-purpose point-elastic indoor sports surface.
Aim	Suitable for all indoor sports and multi functional use, see Herculan Systems Selection Chart.
Description of the Sports Surface	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 ² [> 400 MPa]
Resistance to Impact [EN 1517-1999]	> 16 Nm
Resistance against Static Load [24 hours]	25 kg/cm ²
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 _{FL} – 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 28 days	< 0.05 mg/m ³
Sum of Carcinogenic Substances after 28 days	< 0.001 mg/m ³

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 ² [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 1 kg 1000 cycles 134 mg
Gloss [EN ISO 2813]	< 3 %
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.

Energieweg 6, 4231 DJ Meerkerk, P.O. Box 46, 4230 BA Meerkerk, The Netherlands.
Phone : +31 183 35 47 00 • Fax : +31 183 35 47 40 • E-mail : info@herculan.com • www.herculan.com