



Herculan TC Court Pro tennis courts are eco-friendly, seamless and cushioned tennis courts with point elastic properties.

Herculan TC Court Pro tennis courts meet all the latest European Standards for multi purpose indoor sports surfaces, the EN 14877:2006 and **Herculan TC Court Pro** quality tennis courts are accredited with the CE Certificate of Conformity.

Herculan TC Court Pro tennis courts are certified by the International Tennis Federation [ITF] and are rated as Category 4, Medium Fast courts.

The **Herculan TC Court Pro** system passes the German AgBB/DIBt emission test and is rated as safe for indoor building materials.

The high performance, seamless surface of the **Herculan TC Court Pro** system is non-porous, therefore hygienic and easy to clean. **Herculan TC Court Pro** surface provides true ball bounce for all playing skills, both for professional and recreational players in the game of tennis. The excellent ball pace, slip and sliding properties provide a perfect surface on which to play. The cushioned surface provides excellent shock absorption and reduces leg and lower back injuries. This is due to the high mechanical strength and elastic properties of the Herculan EX 800 thickness layer and the superior wear resistance of its Herculan Court S top-layer. The excellent UV weather resistant properties make **Herculan TC Court Pro** a perfect court for indoor and outdoor use.

This tough and durable tennis court can also be used for exhibitions, concerts, speech-days and all other kinds of non-sport functions without the need for extra protection.

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



Types of Sports Surface	Cushioned tennis surface for indoor and outdoor use.
Aim	Suitable for all tennis games indoor and outdoor, see Herculan Systems Selection Chart.
Description of the Sports Surface	2 mm of special structured coated polyurethane layer on bonded rubber granulate sub-base layer.

HERCULAN TC COURT PRO 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 TC Court Pro 4 + 2	1 mm	13 %	68 %
Herculan TC Court Pro 5 + 2	1 mm	18 %	69 %
Herculan TC Court Pro 6 + 2	1 mm	22 %	69 %
Herculan TC Court Pro 7 + 2	1 mm	25 %	67 %
Herculan TC Court Pro 8 + 2	1 mm	28 %	67 %
Herculan TC Court Pro 9 + 2	1 mm	32 %	66 %

System Properties of the Sports Surface

Vertical Ball Behavior [EN 12235 – DIN 18032-2]	99 %
Angular Ball Rebound [ITF CS/01010-04-092]	43 Medium Fast
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]	< 0.11 mm
Resistance to a Rolling Load [EN 1569:1999]	> 1500 N, < 0.5 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]	C _{FL} – S1
Resistance to Stubbed and Burning Cigarettes [EN 1399]	Resistant. No damage.
Formaldehyde Emission [EN 717-1]	Class E1, No Formaldehyde
AgBB: Health-related Evaluation of Emissions of Volatile Organic Compounds [VOC and SVOC]	Approved for Indoor usage

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 Court S Surface Layer

Surface Texture [N/F 12.1 – Macro, Micro, Porosity]	Medium, Course, Closed
Surface Color	see Herculan Color Chart
Resistance to Wear [EN-ISO 5470-1, ASTM C-501]	Taber H18 1 kg 1000 cycles 320 mg
Gloss [EN-ISO 2813]	3 – 6 %
Friction [EN 13046-4]	Dry 95 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]
Resistance to UV Light [EN 14836]	Excellent, Color change < 4 [EN ISO 20105-A02]
Performance after exposure to UV-Light – EN 14836	Passes all requirements in EN 14877
Environmental Compatibility [DIN V 18035-6 Table 6, Lines 1-13]	Passed

Herculan Sports Surfaces B.V.

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