

POINT-ELASTIC SPORTS FLOOR SYSTEM

The point-elastic sports floor system is a set of polyurethane resin based materials for making elastic, multilayer sports floor systems. It is designed for professional indoor use in such objects as sports halls, gymnasiums, recreational rooms, body building gyms, health care facilities (e.g. physical rehabilitation rooms), etc. It is applied directly to concrete substrates.

The advantages of the floor are: high elasticity, good efficient damping of impact energy, high coefficient of friction, aesthetic appearance due to many available topcoat colour compositions, seamless and easy to clean.

The floor system consists of rubber granulate mat. Thickness of rubber granulate mat is 7 mm. This mat has very specific volumetric weight (using another type of mat of comparable thickness can cause failure to comply with the requirements of the standard). Rubber granulate mat is glued by NOVOFLOOR P21 adhesive to the substrate (which has been primed by NOVOFLOOR P10 sealer). In next step mat is sealed by NOVOFLOOR P32. After preparing the surface in the described manner, a layer of the NOVOFLOOR P42 elastic self-levelling polyurethane coating is applied. Once NOVOFLOOR P42 has cured, the pitch lines can be set. The surface of NOVOFLOOR P42 shall be painted with a NOVOFLOOR P66W water-borne coloured topcoat, which gives the abrasion and matt values required by EU standards. The next stage involves painting the pitch lines with NOVOFLOOR P68.

The thickness of the point-elastic sports floor is ca 9 mm. In case of fitness, where an investor does not require compliance with the European Standard, 4 mm rubber granulate mat could be used and the total thickness of system is ca 6 mm (special, additional mats have to use in case of bodybuilding gym areas).

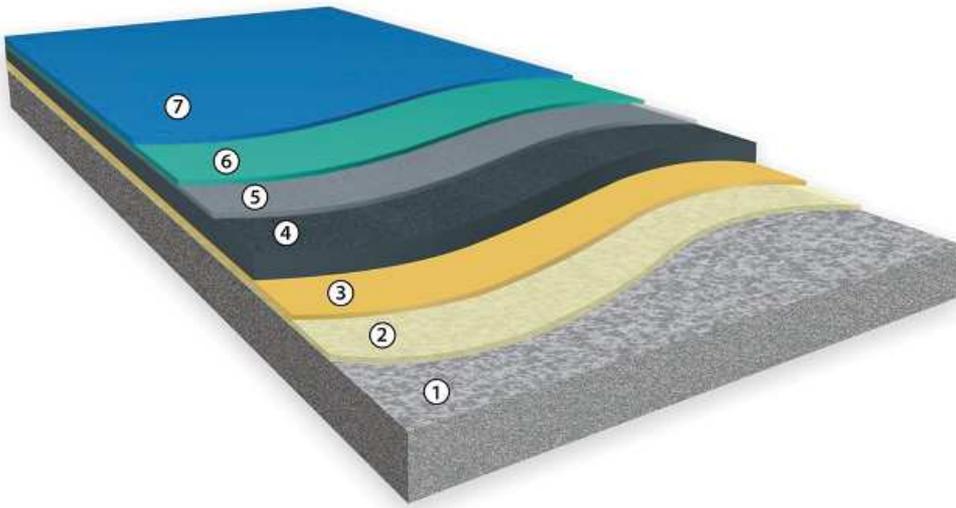
The table below shows the basic properties of the point-elastic sports floor system:

Property	Value	Test method
Shock absorption	25%	PN-EN 14808
Resistance to rolling loads	>1500N	PN-EN 1569
Impact strength	>800	PN-EN 1517
Resistance to denting	0.16mm	PN-EN 1516
Resistance to abrasion	337mg	PN-EN ISO 5470-1
Vertical deformation	1.0mm	PN-EN 14809
Ball rebound height	94%	PN-EN 12235
Coefficient of gloss	15%	PN-EN ISO 2813
Slip, PVT grades, dry	82	PN-EN 13036-4
Reaction to fire	B _{fl} -s1	EN 13501-1

This floor system is compliant with the PN-EN 14904 European standard.

The figure below shows the typical layer arrangement of the point-elastic sports floor system.

- 1 - Concrete substrate
- 2 - NOVOFLOOR P10 sealer
- 3 - NOVOFLOOR P21 adhesive
- 4 - Granulated rubber mat
- 5 - NOVOFLOOR P32 filler
- 6 - NOVOFLOOR P42 coating
- 7 - NOVOFLOOR P66W topcoat and NOVOFLOOR P68 topcoat (lines)



Recommendations on floor cleaning and maintenance, see technical data sheet PT-4-02.

Other information:

The effectiveness of our systems results from laboratory research and many years of experience. The data contained herein meets the current knowledge about our products and their application potential. We ensure high quality, provided the user follows the instructions and the work is performed in accordance with good workmanship. It is necessary to do a test application of the product due to its potentially different reaction with different materials. We may not be held liable for defects if the final result was affected by factors beyond our control.