

COMBINED ELASTIC SPORTS FLOOR SYSTEM

The combined 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, bodybuilding gyms, health care facilities (e.g. physical rehabilitation rooms), etc. It is applied just as the point-elastic floor; however the substrate is a timber frame with a flexible surface.

The system combines the properties of a traditional parquet sports floor with the advantages offered by point-elastic floor. This results in superb resilience, high elasticity and excellent damping of impact energy, high coefficient of friction, as well as aesthetic appearance due to many available topcoat colour compositions; the floor is seamless and easy to clean. This solution offers one of the most comfortable sports floor designs.

The thickness of the combined elastic sports floor is: ca. 70 mm thickness of timber construction, 4 mm rubber granulate mat and ca. 2 mm polyurethane coating. It is not necessary to use thicker mats in this case. The timber construction, which should be used with polyurethane system, should be consulted with producer of polyurethane system.

The floor system consists of a rubber granulate mat glued with NOVOFLOOR P21 adhesive to the wooden panel. In next step mat is sealed by NOVOFLOOR P32. After preparing the surface in the described manner, a layer of 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 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.

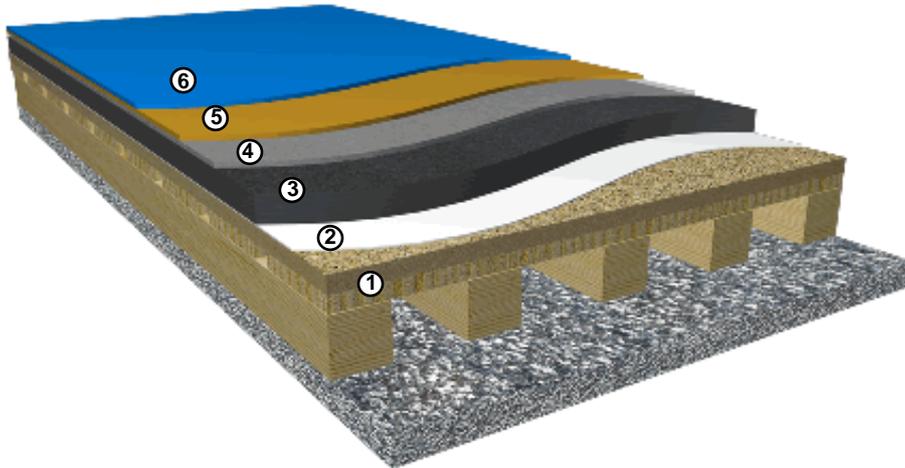
The table below shows the basic properties of the combined elastic sports floor system:

Property	Value	Test method
Shock absorption	51%	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	1.2mm	PN-EN 14809
Ball rebound height	93%	PN-EN 12235
Coefficient of gloss	19%	PN-EN ISO 2813
Slip, PVT grades, dry	85	PN-EN 13036-4

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

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

- 1 - Wooden framework
- 2 - NOVOFLOOR P21 adhesive
- 3 - Granulated rubber mat
- 4 - NOVOFLOOR P32 filler
- 5 - NOVOFLOOR P42 coating
- 6 - 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