

Rubber sports surface HD (TZ)

The WARCO Rubber Sports Surface HD is a robust flooring for basketball courts, soccer courts, multi-use pitches and other heavily used areas. The 50 × 50 cm tiles interlock precisely with puzzle edges and are available in 3, 4 or 5 cm thickness.

With their higher density, the tiles are abrasion-resistant and ensure a consistent ball rebound. The slip-resistant, elastic structure provides grip, joint protection and noise reduction. Rainwater drains through the porous structure, though more slowly than with the standard version. The surface remains usable year-round. Frost-proof, durable and low-maintenance – the economical choice for schools, clubs and public facilities.



Product data

Colour	Grey Melange
Installation	Interlocking puzzle joint with gently rounded bevel
Packaging	540 x 540 x 30 mm

Weight	6.51 kg/Piece = 26.04 kg/m²
Conversion	1 m² = 4 Piece
Useful size	500 x 500 x 30 mm

Properties



Colour Grey Melange

Grey Melange is characterised by a harmonious blend of light and dark grey tones, creating a marbled, dynamic surface. This colour is elegant, balanced and timeless. The newly manufactured pigmented EPDM rubber granules consist of fine and medium granules, resulting in a natural, textured appearance. It is UV-resistant, non-toxic and highly colour stable, ensuring that it retains its aesthetic appeal even after long-term use. Grey Melange is particularly suitable for environments where a subtle, modern and versatile design is desired.



Material

The product consists of two layers and is manufactured in a single pressing process. The lower functional layer consists of black ELT (End of Life Tyres) granules obtained from the recycling of end-of-life tyres. Chemically, ELT is a blend of natural rubber (NR) and styrene butadiene rubber (SBR). The top layer, the tread, is made of newly produced, fully coloured and pollutant-free EPDM (ethylene-propylene-diene rubber) granules with a fine grain size. This product meets particularly high standards of safety, durability and functionality.



Installation

The edges of the tiles are designed with an interlocking puzzle connection. Any side of a tile can be connected to any side of any other tile. The installation grid is 50 cm. During installation, the puzzle teeth precisely fit together to form a permanent connection, ensuring a stable and secure surface. The elegantly rounded bevel creates a modern, refined joint pattern with closed or narrow gaps.



Structure of the underside

The underside of the tile has a structure of approximately 4mm deep drainage channels. The drainage channels of adjacent tiles are interconnected to form a continuous network. Within the square areas between the channels there is a large dome-shaped indentation approximately 15mm deep. These indentations enhance the tile's weather resistance, dimensional stability and shock-absorbing properties. The tiles can be laid over a bonded sub-base, waterproofing system or suitable gravel grids. Please refer to the installation guidelines for proper application.

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Characteristics



Suitable for chlorinated water

Good resistance to chlorinated water, chlorinated cleaning agents and swimming pool water.



Cfl-s1

Fire behaviour according to EN 13501-1: Cfl-s1
Limited contribution to fire – Low smoke emission



Indoor & Outdoor

Weather and frost resistant – suitable for versatile indoor and outdoor use.



Toxicologically safe

No impermissible pollutant emissions, initial rubber odour dissipates over time.



Colourfast and UV-resistant

The surface made of EPDM rubber granules is colourfast and long-term UV-resistant (sun).

Comparative values

The comparison of technical data on a scale from 1 to 5 provides a practical way of objectively comparing the relevant properties of WARCO products, making it easier to find the most suitable product for the intended application. Detailed information on the scale values and their calculation can be found online on the product detail page.

Apparent density - scale value 4 = 900 to 1000 kg/m³

Shock, vibration, and impact sound insulation – Scale value 2 = comfortable damping

Compressive strength - Scale value 4 = approx. 0.25 mm residual dent after 24 hours of unloading (BS 7188)

Thermal insulation – Scale value 3 = Thermal conductivity approx. 0.11 W/(m·K)

Abrasion resistance – Resistance to abrasive wear – Scale value 3 = "very good" (BS 7188)

Water Permeability (EN 12616) – Rating 2 = Infiltration up to 10 mm/h (10 l/h/m²)

Slip resistance class DS (EN 14041) - Scale value 2 = Coefficient of friction approx. 0.38

Slip resistance (EN 16165) – Scale value 3 = mean acceptance angle approx. 15°, group R10

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