

Safety Puzzle Tile (XT)

The Safety Puzzle Tile is an impact-absorbing surface covering for playgrounds, school yards and indoor play areas. Installed loose as a single layer or combined with functional tiles XX, it forms a system adapted to the required critical fall height. The precision jigsaw interlock creates a hairline joint, resulting in a continuous surface appearance.

The EPDM wear layer provides a slip-resistant, skin-friendly surface, while the ELT base layer ensures cushioning and load distribution. The structure allows water to drain through and dry quickly. The surface remains usable throughout the year and can be cleaned easily with water and standard equipment.



Product data

Colour	Travertine	Weight	4.34 kg/piece = 21.81 kg/m²
Fixing system	Optimised jigsaw interlock without bevel	Conversion	1 m² = 5.03 piece
Dimensions	485 x 485 x 28 mm	Usable dimensions	44,6 x 44,6 x 2,8 cm

Properties



Colour Travertine

Travertine combines sand, beige and pale brown tones in a warm mineral colour blend inspired by light limestone.

Material

This product has a two-layer construction. The wear layer, approximately 3.3 mm thick, consists of newly produced, permanently coloured EPDM granules (Ethylene Propylene Diene Monomer) bound with UV-stabilised polyurethane. It has an open-pored surface structure. The base layer is made from cleaned black recycled tyre rubber granules (ELT) with a coarse grain size, bound with polyurethane. ELT stands for "End of Life Tyres" and refers to granules produced from recycled tyres. The base layer has a comparatively open structure and a lower compaction level.

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Characteristics



Toxicologically safe

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



Frost resistant

Resistant to frost and freezing water within the material – no cracking, tearing or breaking.



Indoor & Outdoor

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



Colourfast and UV-resistant

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



Cfl-s1

Reaction to fire according to EN 13501-1: Cfl-s1
Limited contribution to fire. Low smoke production.

Comparative values

Comparing technical data on a scale from 1 to 5 offers a practical way to objectively assess 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 is available on the product detail page.

Slip resistance (EN 16165) – Scale value 4 = mean acceptance angle approx. 16°, group R10

Water Permeability (EN 12616) – Rating 5 = Infiltration approx. 1000 mm/h (1000 l/h/m²)

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

Compressive strength - Scale value 1 = approx. 1 mm residual dent after 24 hours of unloading (BS 7188)

Apparent density - scale value 1 = up to 780 kg/m³

Slip resistance class DS (EN 14041) - Scale value 4 = Coefficient of friction approx. 0.53

Abrasion resistance – Resistance to abrasive wear – Scale value 2 = "good" (BS 7188)

Shock, vibration, and impact sound insulation – Scale value 3 = distinct damping

Michael Schladt
WARCO Bodenbeläge
Andergasse 17
67434 Neustadt an der
Weinstraße

WARCO Gallery
Klemmhof 9
67433 Neustadt an der Weinstraße
Terminvereinbarung erforderlich.

Fachberatung
06321 9152391

E-Mail: info@warco.eu
web: www.warco.eu