

Technical & Environmental Fact Sheet

EcoTile Interlocking Floor Tiles

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Composition and Manufacture	EcoTile is injection moulded using either virgin, recycled or a combination of both virgin and recycled material.
Standards and Accreditation	Meets & exceeds requirements of BS EN 685:1996 (Resilient and laminate floor coverings) and BS EN 649:1997 (Resilient Floor coverings. Homogeneous and heterogeneous pvc floor coverings), BBA 96/3229/3
Life Cycle Cost	EcoTile is a loose laid system so in the event of damage or excessive wear individual tiles can be lifted and replaced significantly extending the life of the floor and reducing the life cycle cost.
Sustainability	EcoTile is 100% recyclable, at the end of its service life the tiles can be granulated and re-used to manufacture a new floor. Most floor coverings only have a limited life span due to wear or the building occupier's wishes to refurbish or alter the building's appearance. Most waste floor coverings will end up in land fill due to the fact that once it has been adhered to the floor it cannot be re-used. Not only can Ecotile be recycled but there is a strong market for pre-owned tiles
Anticipated Service Life	25 years +
Recycled content	Black – 100% Light Grey & Dark Grey – 75% to 100% * Colours – 50% to 100% *
Environmental Impact	Percentage may vary subject to availability and quality of recycled material During 2007 we converted 20,000 tons of waste plastics including post consumer and post industrial waste.
VoC Content	Trace elements of volatile's from modifiers and non PVC based additives. Significantly lower VoC levels when compared to resin based flooring systems or the levels encountered when using adhesives to stick down conventional floor coverings.
Sound Absorption	Noise reduction of up to 46db can be achieved
Guarantees	All the products in the EcoTile range are guaranteed to remain free from manufacturing defects for 10 years from the date of installation.
Dimensions	Tile: 500mm x 500mm Ramp: 500mm x 120mm
Hardness	89-92 Shore A
Fire Performance (flame)	EcoTile does not support combustion and achieves Class 1 spread of flame when tested to BS 476: Part 7
Anti-Slip Qualities	Tested in accordance with the UK slip resistance guidelines. Test results: Potential for slip in wet conditions: LOW
Abrasion Wear	Group T (<2.0mm ² /100 revs) (EN660-2) 16
Mechanical Resistance	17 N/mm ² to DIN 53516
Dimensional Stability	BS EN 434:1994 – Maximum change in dimension <0.1%
Chemicals	EcoTile is resistant to most commonly used chemicals and hydrocarbons. A comprehensive chemical resistance chart is available upon request. Caution is advisable if certain solvents are in use.

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Colour Fastness	>6 [EN 20105 B02: Method 3]
Installation	All installations in accordance with Code of Practice BS 8203:2001 and The Versatile Flooring Co. Ltd. installation instructions.
Cleaning	Day-to-day cleaning uses a rotary scrubber dryer or damp mopping

EcoTile ESD Electrical Characteristics

EcoTile ESD fulfils the recommendations detailed in BS EN 61340 5-1:2001 for floors used for primary grounding

Resistance to ground of the floor / footwear combination:	(Rg) >7.5 x 10 ⁽⁵⁾ and < 3.5 x 10 ⁽⁷⁾ ohm
Anti-static Performance:	3.0 x 10 ⁽⁵⁾ < Rs < 3.4 x 10 ⁽⁵⁾
Conductive Performance:	3.6 x 10 ⁵ < Rg < 9.5 x 10 ⁵
Resistance to Hot Objects / Solder	Good
Chemical / Solvent Resistance	Good

* A conductive strip is required to ground the tiles, one earth point required per 30m² of floor area to be covered or one earth point per section of tiles installed (whichever is the lower).

HSE UK Slip Resistance Group Guidelines and recommendations

The HSE do not recommend a specific μ value (mu) or PTV value for flooring due to the fact that there are so many external factors that will influence the anti-slip performance of the floor. These include the type of footwear, level of traffic, ease of cleaning etc. However the general guidelines are, for an unencumbered, reasonably active pedestrian aged between 18 and 60 a PTV value of 36 or above when measured in dry conditions (represents an acceptably low risk of slipping when walking in a straight line on a level surface).

PTV = Pendulum Test Value / Slip Resistance Value

Slip Resistance Performance of EcoTile Interlocking Floor Tiles & Suregrip Anti-slip Safety Products

Surface Texture	PTV value		Risk of Slipping	Mean Surface Roughness
	Dry	Wet		
Raised Disk	69	47	Very Low	37.9
Flat Textured	69	36	Low	31.7
Embossed	69	36	Low	39.9
Suregrip Industrial Grade	>76	>76	Very Low	NA
Suregrip Commercial Grade	>76	>76	Very Low	NA
Suregrip Pedestrian Grade	76	66	Very Low	NA



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