

Technical & Environmental Fact Sheet:

- **Standards and Accreditation** - Meets & exceeds requirements of BS EN 685:1996 (Resilient and Homogeneous and heterogeneous PVC floor coverings), BBA 96/3229/3 laminate floor coverings) and BS EN 649:1997 (Resilient Floor coverings).
- **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 +
- **VOC Content** - Trace elements of volatiles 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. ecotile contains no formaldehyde and carries a class E1 rating
- **Sound Absorption** - Noise reduction of up to 46db can be achieved
- **Hardness** - Standard ISO 868 – ecotile 6mm, 7mm and 10mm – 89-92 Shore A / ecotile comfort 76 Shore
- **Slip Resistance / Anti-Slip Qualities:**
- **EN 14041:2004 - Pass** - Average Reading in excess of 0.6 dynamic coefficient of friction
- **DIN 51130:2004 - R10 Rating** - Suitable for use in areas where there is an increased risk of slipping due to grease, oil water etc..
- **EN 13893:2002 – Dynamic Coefficient of Friction = 0.75 avg..**

Surface	Mean Slip Resistance Value / Potential for slip		Mean Surface Roughness
	Wet	Dry	
Raised Disk	47 / Low	69 / Extremely low	31.7
Smooth	36 / Low	69 / Extremely low	37.9
Durbar	44 / Low	69 / Extremely low	33.4

All tests undertaken by Building Technology Group, BRE Garston. Test certificates available

- **Fire Performance**
- ecotile does not support combustion and achieves Class 1 spread of flame when tested to BS 476: Part 7
- DIN 13501: 2004 - Bfl-S1
- **Abrasion Wear** - Group T (<0.1mm /100 revs) (EN 660-2 / EN13845)
- **Mechanical Resistance** - 17 N/mm2 to DIN 53516
- **Density** - BS EN 436
- **Determination of Length, Squareness & Straightness** - BS EN 428:1993 - <0.13% / 0.5mm max
- **Thickness** - BS EN 428 - 6.03 to 9.24mm +/- 0.15mm
- **Determination of Residual Indentation** - BS EN 433:1994 - <0.1mm
- **Dimensional Stability** - BS EN 434:1994 – Maximum change in dimension <0.1%
- **Compressive Strength** - ISO 6721-1:1994, ISO 6721-2:1994, ISO 6721-6:1996: 520kg/cm²
- **Chemical Resistance** - Good resistance to most commonly used chemicals. ecotile offers good short to medium term resistance but as with most materials long term exposure could result in damage to the elastomer, colour and stability of the tile. In the event of accident we recommend the tiles are cleaned as soon as possible and if necessary lifted to remove any chemical that may have seeped underneath. EN 13529 – Common acids oils & gas oil – No deterioration / Solvents – Not resistant to prolonged contact
- **Colour Fastness / Resistance to natural light:** EN 20105-B021 - 5 (no damage)
- **Cleaning** - Day-to-day cleaning - Use a rotary scrubber dryer or damp mopping
- **Electrical Properties** - ecotile Standard: surface resistivity: 10¹¹ and 10¹⁴ Ω / ecotile ESD: surface resistivity: 3 x 10⁶Ω and 2.2 x 10⁴Ω / Resistance to ground : 5.7 x 10⁵Ω and 2.9 x 10⁴Ω / ecotile Anti-static: surface resistivity: 3 x 10⁹Ω and 2.2 x 10¹¹Ω
- Tests were carried out in accordance with the requirements of Annex A.1 of BS IEC 61340-5-1:2001. ecotile ESD fulfils the recommendations detailed in BS EN 61340 5-1:2001 for floors to be used for primary grounding.
- **Resistance to Hot Objects/Solder** - Good
- **Dimensions** - Tile: 500mm x 500mm / Ramp: 500mm x 70mm
- **Usage Classification** - Code of Practice BS 8203:2001 / EN 685 – Class 43



The CE marking certifies that a product has met EU consumer safety, health or environmental requirements. ecotile carries the CE marking and is manufactured to and corresponds with the criteria detailed for PVC flooring as detailed in EN 14041.

ecotile llp & The Versatile Flooring Company Ltd are a BS EN ISO9001:2008 accredited company.
Certificate No: AJA11/15057

Life Cycle Cost & Environmental Impact: ecotile can usually be installed without the need for any sub-floor preparation and no adhesives are required saving on materials, labour and harmful VOC emissions. ecotile has an anticipated life span in excess of 25 years. When the floor has reached the end of its usable life, ecotile can be quickly and simply lifted and, because there is no contamination from adhesive or screed, the tiles can be 100% recycled.

Appearance & Colours: ecotile is available in nine standard colours and four finishes. Special colours available on request.

Installation (For detailed instructions please refer to our Installation guidelines): ecotile is quick and simple to install and the tiles do not require a DPM or gluing to the floor. Installation should only be undertaken when the tiles have been allowed to acclimatise to the ambient temperature of the room (minimum 15 degrees centigrade). Start installation of the open joint from the centre of the room and the hidden joint from one corner of the room ensuring that you leave a 5mm gap between the tiles and the wall. Install all full size tiles, allow the floor to settle and then cut tiles to fit up to walls and fixed points leaving a 5mm gap for expansion between the tiles and any fixed point.

Cleaning & Maintenance: Sweep regularly to remove particle dirt and occasionally damp mop or use a rotary scrubber dryer to clean the floor using a neutral pH floor cleaner diluted in between 1:80 and 1:50. Application of a hard wearing floor sealer will help maintain the appearance of the floor and extend its lifespan. Please contact us for detailed cleaning and maintenance instructions and a list of approved products.

Accessories: Please refer to price list for the full list of accessories including ramps, corners, skirting, adhesives and sealers.



EN 649 - Homogenous Flooring
EN 13845
ASTM F1303



ENHANCED SLIP: Sustainable wet slip resistance EN 14041: 2004 - Pass / DIN51130:2004 - R10 - Suitable for use in areas where there is an increased risk of slipping due to grease, oil water etc. Mean surface roughness $R_z \geq 37\mu\text{m}$ The slip resistance across all ecotile products is assured throughout the guaranteed life of the product, with strict adherence to HSE Guidelines.



REACTION TO FIRE: EN 13501-1 Class Bfl-S1
EN ISO 9239-1 $\geq 8\text{kw/m}^2$
EN ISO 11925-2 Pass / ASTM E648 Class 1



EN 423
GOOD



Impact Resistance
EN13329 - 549
549kg/cm²



* EN/ISO 61340/5, EN 1081, EN1815 & EN6356
Resistance to Ground



EN 13845 50K
cycles EN 649
Group T



Noise Reduction
EN 140-8 >46db



* EN/ISO 61340/5, EN 1081, EN1815 & EN6356
- Surface Resistance



Thickness of wear
layer EN 429
6 to 10mm



* EN/ISO 61340/5, EN 1081, EN1815 & EN6356
- Anti-static Floor
Covering



Notes: * relates to the ecotile 500/7/ESD and E502/7/AS tiles only.

Product Data			
Format	Dimensions	Thickness	Weight/m ²
Tile	500 x 500mm	6.3, 7 or 10mm	7.3 to 12kgs
Colours	Surface Finish	Pack Size	Coverage per pack/m ²
Various	Smooth, raised disk, slate or durbar	10 tiles	2.5m ²

For further information contact:

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