ecotile

technical and environmental info

Composition & Manufacture

Ecotile is injection moulded using either virgin, recycled or a combination of both virgin and recycled material. Ecotiles are manufactured to the highest quality standards and are **ISO 9001:2000** certified.

Standards & Accreditation

Meets & exceeds requirements:
BS EN685:1996 (Resilient & laminate floor coverings)
BS EN649:1997 (Resilient floor coverings. Homogenous & heterogeneous pvc 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 buildings 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

20 years +

Recycled Content

Decoloc	100%
Black	100%
Light/Dark Grey	75-100%
Colours	50-100%

Percentage may vary subject to availability and quality of recycled material.

Environmental Impact

During 2007, 20,000 tons of waste was recycled in the UK alone. This was made up of 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 46 decibels can be achieved.

Guarantees

All products in the Ecotile range are guaranteed to remain free from manufacturing defects for 10 years from the date of installation.

Dimensions

Tiles:	500mm x 500mm
Ramp:	500mm x 110mm

Hardness

89-92 Shore A

Fire Performance (Flame)

Ecotile does not support combustion and achieves Class 1 spread of flame when tested to **BS 476-7:1997**.

Anti Slip Qualities

Tested in accordance with UK slip resistance guidelines.
Test Results: Potential for slip in wet condition – LOW

Abrasion Wear

Group T (<2.0mm2/100 revs) 16
EN 660-2:1999 (Resilient Floor Coverings - Determination of Wear Resistance - Frick-taber Test)

Mechanical Resistance

17N/mm2 to DIN53516

Dimensional Stability

BS EN 434:1994 – Maximum change in dimension <0.1%

Chemical Resistance

Ecotile is resistant to most commonly used chemicals and hydrocarbons. A comprehensive chemical resistance chart is available upon request. Caution is advisable if Ketone based solvents are in use.

Colour Fastness

>6
ISO 105-B02:1988
(Textiles. Tests for colour fastness. Colour fastness artificial light [xenon arc fading lamp test])

Cleaning

Day to day cleaning uses damp mopping or rotary scrubber dryer.

HSE 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

PTV value			Risk of Slipping	Mean Surface Roughness
Surface texture	Dry	Wet		
Raised disc	69	47	Very Low	37.9
Flat (ESD)	69	36	Low	31.7
Embossed	69	36	Low	39.9

Ecotile Constat Electrical Characteristics

Ecotile Constat fulfils the recommendations in
EN 61340.5.1-2007 for floors used for primary grounding.
EN 61340.5.1-2007 (Electrostatics - Protection of electronic devices from electrostatic phenomena - General requirements)

Resistance to ground of the floor/footwear combination

[Rg]>7.5x10[5] and < 3.5 x 10[7] ohm

Anti-Static Peformance

3.0x10[5]<Rs<3.4x10[5]

Conductive Performance

3.6 x 105<Rg<9.5x105

Resistance to Hot Objects/Solder and Chemical/Solvent:

Good

ECOTILE AUSTRALIA

www.ecotile.com.au

fact sheet