

## Forbo Environmental Data Sheet

<b>Product name</b>	<b>Marmoleum Modular 2.5mm tile</b>
Product description	Marmoleum Modular tile is a linoleum floor covering complying with all the requirements of EN-ISO 24011: Specification for plain and decorative linoleum
Manufacturing location	Assendelft, Netherlands Kirkcaldy, United Kingdom
Site accreditation	ISO14001, ISO 9001, OHSAS 18001, SA8000®



### Our footprint – how it's made

#### Environmental data

Total recycled content of product by weight	60%
Post industrial recycled content	60%
Post consumer recycled content	0%
% renewable electricity used	100%
CO <sub>2</sub> per m <sup>2</sup>	5.9kg

#### Independent assessment and rating

Nordic Swan	
Natureplus	
Allergy UK Seal of Approval	
ISO 9001 Quality Management System	
ISO 14001 Environmental Management System	
Marmoleum is manufactured in a SA8000® certified facility	

#### Carbon footprint

Estimated carbon footprint using data from Environmental product declaration according to ISO 14025	Raw materials and production	3.98 kg CO <sub>2</sub> eq/m <sup>2</sup>
	Use (1 year)	0.36 kg CO <sub>2</sub> eq/m <sup>2</sup>

### Your footsteps – how it performs

#### Health and well being

AgBB/DiBT	Pass
CHPS 01350	Marmoleum products comply to 01350 indoor air quality standard
Air quality	Approved by Allergy UK
Impact sound reduction	5dB
Bacteriostatic properties	Marmoleum has independent tests to prove that it inhibits bacteria such as MRSA, C Difficile, Norovirus, Acinetobacter baumannii

#### Installation

Recommended adhesives	Forbo recommends the use of 414/696 Euroflex lino plus <b>low solvent</b> . Fast tack linoleum adhesive. Where contribution to credits for BREEAM sections HEA2 and HEA9 are required then low emission adhesive Eurocol 614 Eurostar Lino plus should be used. If a permanent bond is required, please use Eurocol 640 Eurostar special.
	Installation off-cuts of Marmoleum can be collected via our <b>Back to the Floor</b> scheme and recycled back into Marmoleum at our plant in Scotland.

**Maintenance**

Topshield2	Unique dual layer finish. Resistant to staining and scuffing so reducing the amount of cleaning required. Can be completely renovated, unlike PUR finishes.
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**End of life**

Marmoleum can be recycled or composted.
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**Contribution to Green Building Schemes**

**BREEAM**

BREEAM ratings (generic) Linoleum – Plain and decorative linoleum (EN548)	Building Type				Retail (Durability)	Retail (Fashion)
	Office	Education	Healthcare	Homes		
	A	A+	A+	A	A+	A+

**Ska scheme (RICS)**

M12 soft floor covering criteria (Ska Offices Vs 1.2 2013)	Meets
M12 soft floor covering criteria (Ska Retail Vs 1.0 2012)	Meets
M12 soft floor covering criteria (Ska Higher Education Vs 1.0 2016)	Meets

**LEED (version 2.2)**

Potential direct or indirect contribution to following categories and credits:	<b>Indoor Environmental Quality</b>	Credit 4.1 Low Emitting Materials: Adhesive & Sealants	Credit 4.3 Low emitting Materials
	<b>Materials and Resources</b>	Credit 2.1 Construction Waste Management	Credit 4.1 Recycled content Credit 5.1 Regional materials
	<b>Innovation and Design</b>	Credits 1-4 1 Climate Neutral Products	Credits 1-4 1 Pilot Credit 43, Certified Products

**Forbo design principles (Reduce, Recycle, Reuse, Renew)**

<b>Reduce</b>	Marmoleum’s Topshield2 finish significantly reduces cleaning and maintenance costs in life. Reduced VOC emissions from calendaring process by introducing rapeseed oil.
<b>Reuse</b>	All Marmoleum site offcuts can be returned to Forbo for reprocessing using our <b>Back to the Floor</b> initiative. After Marmoleum’s long life it can be incinerated for landfill and this reclaims more energy that is used in production. It is also biodegradable in a controlled environment.
<b>Recycle</b>	Packaging used to deliver raw materials is separated and recycled externally.
<b>Renew</b>	All Marmoleum is produced using 100% renewable electricity. Marmoleum contains 72% of rapidly renewable materials, i.e. they can be harvested within 10 years of planting

**Detailed environmental product declarations and full Life Cycle Analysis**

EPD declaration number 12CA64879.101.1	visit <a href="http://www.forbo-flooring.co.uk/downloads">www.forbo-flooring.co.uk/downloads</a> for more information
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