

PRODUCT INFORMATION	TYPE OF PRODUCT	Tiling
	COMPANY NAME	Forbo
	PRODUCT/COLLECTION NAME	Marmoleum composition tile (MCT)
	DESCRIPTION	Forbo has manufactured Marmoleum composition Tile the most globally used brand of linoleum for more than 150 years. Marmoleum is produced having low environmental impacts as a result of the combination of natural renewable materials and high recycle content.
MATERIAL FEEDSTOCK	MATERIAL CONTENT	Made from natural raw materials, including linseed oil, pine rosin and wood flour, Marmoleum is biodegradable and environmentally friendly. The natural properties of Marmoleum cause it to strengthen over its life. When properly maintained, Marmoleum will retain its attractive appearance for decades. In addition, Marmoleum helps create a healthier indoor environment. Naturally occurring anti-microbial properties inhibit the growth of many microorganisms, including allergen producing dust mites and the MRSA strains of bacteria.
	RECYCLED CONTENT %	MCT is 46.5% pre-consumer recycled material and 0% post-consumer recycled material.
	RAPIDLY RENEWABLE CONTENT %	It is 23% rapidly renewable content.
	HARMFUL ADDITIVES	The material does not contain heavy metal additives. The material does not contain bio accumulative toxins [PBTs] such as PBDEs or other brominated flame-retardants. There are no added urea or phenol or other formaldehydes.
	HARMFUL EMISSIONS	The product does not emit greenhouse gases.
	EMISSION STRENGTH OVER TIME	The product does not give off gas throughout its entire lifecycle
	TREATMENTS	NA
	MANUFACTURING	MANUFACTURING PROCESS
	HARMFUL EMISSIONS	The material does not give off gas ozone depleting gasses. The material does not contain PVC.
	LOCATION OF MANUF. PLANT	Manufactured in Sheboygan, WI Regional extraction/process: Ingredient extraction location Linseed oil (flax) Canada Tall oil United States Gum rosin Indonesia Wood flour Germany Limestone Germany Pigment Germany Jute India, Bangladesh Topshield finish (water-based) The Netherlands
	TESTS/CODES	Passes CHPS 01350 and other stringent IAQ standards.
	3RD PARTY CERTIFICATION	MCT was awarded the Sustainable Materials Rating Technology© (SMaRT©) Sustainable Platinum Certification for Marmoleum and Bulletin Board products. The SMaRT© Consensus Sustainable Product Standards (CSPS) were developed by The Institute for Market Transformation to Sustainability (MTS) to evaluate the environmental performance of a building product over its life. CSPS is important in combating today's climate of green washing, as it is an independently done, peer-reviewed, consensus based standard that allows for transparent communication.
INSTALLATION	INSTALLATION PROCEDURE	Please refer to their site for installation guide: http://www.forbo-flooring.com/Commercial-flooring/Installation-floor-care/Linoleum/Installation/
	INSTALLATION ADHESIVES	Please refer to installation guide above.
	UNIT COST	Pre- & Post-consumer Total contribution: \$5,443-\$6,169 Contribution per ft2: \$0.54-\$0.62
	LIFE CYCLE ANALYSIS EXTRACTION	NA
	END OF SERVICE LIFE	Not specified
MISC. PROPERTIES	QUALITIES/PROPERTIES OF PRODUCT	In addition, MCT offers the following benefits: • Occupancy ready finish (Topshield), meaning the floor does not require any

		<p>initial coats of finish (Visit www.floorcostcomparison.com)</p> <ul style="list-style-type: none"> • 10 times higher indentation resistance, and better stain resistance • Inherent bacteriostatic efficacy including MRSA and C-difficile • Natural anti-static properties to repel dust and dirt, making it easy to maintain a clean and healthy environment.
	MISC. COMMENTS	<p>MCT also has natural anti-static properties to repel dust and dirt, making it easier to maintain a clean and hygienic environment.</p> <p>Marmoleum water-based Topshield finish eliminates the need for initial maintenance and chemicals, while providing lower cleaning costs and a better long-term appearance retention.</p> <p>MCT requires no initial maintenance, whereas VCT does require initial maintenance (the true hidden cost).</p> <ul style="list-style-type: none"> • MCT features an excellent cost of ownership as compared to VCT. www.floorcostcomparison.com • MCT requires no costly stripping and recoating over its life. <p>From the indoor environment to the natural environment, Marmoleum helps create better environments.</p>
	CONTRIBUTION TO LEED POINTS	<p>Leed points — qualifies for materials & resource credit 2, 4, 6, IEQ prerequisite 3, low emitting materials 4.3, 4.1, 5, sustainable certifications; total 8-11 points</p>
<u>COMPANY PROFILE</u>	GREEN PHILOSOPHY	<p>The opportunity to make a difference:</p> <p>The flooring industry is an evolutionary business, not revolutionary. It evolves over time; however, there are occasional historical benchmarks of dramatic shifts in the market. One of those occurred in the 1970's when, for environmental and health reasons, the market rapidly shifted from VAT (Vinyl Asbestos Tile) to VCT (Vinyl Composition Tile). This was driven by the asbestos component in VAT. VCT, which is the cheapest, most expensive floor covering you can purchase, is THE base grade commercial resilient flooring used in the industry today. This is driven by first-cost concerns, rather than cost of ownership. It is now time for the market to make a major shift again.</p> <p>For improved health and cost performance, it is time to move away from a high chemical usage for cleaning and maintenance, plasticized PVC-based product, to the only occupancy ready product with a third party, peer-reviewed publicly disclosed LCA analysis showing its exceptional environmental and performance profile, MCT – Marmoleum Composition Tile.</p>
	CONTACT	<p>North American Headquarters Forbo Flooring Systems 8 Maplewood Drive Humboldt Industrial Park Hazleton, PA 18202 T: 1-800-842-7839 570-459-0771 F: 570-450-0258 Email: info.na@forbo.com www.forboflooringna.com www.floorcostcomparison.com</p>
	<u>MAINTENANCE</u>	AFTER INSTALLATION