

IAR Library: 09.65.16 FO 2013
Flooring systems
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PRODUCT INFORMATION	TYPE OF PRODUCT	Flooring systems																		
	COMPANY NAME	Forbo																		
	PRODUCT/COLLECTION NAME	Marmoleum Composition Sheet: Real, Fresco, Vivace, Piano, Striato, Mineral, Prisma, Graphic, Oxyd, Unexpected Nature, Walton Uni, Cirrus, Crocodiles.																		
	DESCRIPTION	Marbleized sheet linoleum is made of natural ingredients including linseed oil, rosins, wood flour and finely ground limestone calendared onto jute backing. The readily renewable resources utilized in the manufacturing process of Marmoleum are not only natural but all pigmentation is non-toxic as well. Marmoleum Real, Fresco, Vivace, Piano, Striato, Mineral, Prisma, Graphic, Onyx, Unexpected Nature, and Walton Uni, Cirrus and Crocodiles' ecologically friendly composition is a significant advantage in a period when a product's environmental impact is of ever-increasing importance.																		
MATERIAL FEEDSTOCK	MATERIAL CONTENT	Marmoleum® Real, Fresco, Vivace, Piano, Striato, Mineral, Prisma, Graphic, Oxyd, Unexpected Nature, and Walton Uni Cirrus and Crocodiles are offered in rolls that are 79 inches (2 m) wide by 105 feet (32 m) long. The roll size is approximately 77 square yards (64 square meters), with a 1/10" (2.5 mm) thickness.																		
	RECYCLED CONTENT %	Pre-consumer (post-industrial): 46.5% (wood flour, tall oil) Post-consumer:0%																		
	RAPIDLY RENEWABLE CONTENT %	33% by weight: inseed oil, pine rosin, jute																		
	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 gasses.																		
	EMISSION STRENGTH OVER TIME	The product does not give off gas throughout its entire lifecycle																		
	TREATMENTS	NA																		
MANUFACTURING	MANUFACTURING PROCESS	There are no ozone-depleting chemicals used during the 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: <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Ingredient</td> <td>extraction location</td> </tr> <tr> <td>Linseed oil (flax)</td> <td>Canada</td> </tr> <tr> <td>Tall oil</td> <td>United States</td> </tr> <tr> <td>Gum rosin</td> <td>Indonesia</td> </tr> <tr> <td>Wood flour</td> <td>Germany</td> </tr> <tr> <td>Limestone</td> <td>Germany</td> </tr> <tr> <td>Pigment</td> <td>Germany</td> </tr> <tr> <td>Jute</td> <td>India, Bangladesh</td> </tr> <tr> <td>Topshield finish (water-based)</td> <td>The Netherlands</td> </tr> </table>	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
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Topshield finish (water-based)	The Netherlands																			
TESTS/CODES	Passes CHPS 01350 and other stringent IAQ standards.																			
3RD PARTY CERTIFICATION	SMaRT® Sustainable Products Standard platinum level certification & 100% USDA Certified Biobased Product																			
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	Adhesives meet the requirements set forth in the SCAQMD Rule#1168																		
	UNIT COST	Pre- & Post-consumer Total contribution: \$4,772-\$5,408 Contribution per ft ² : \$0.48-\$0.54																		
	LIFE CYCLE ANALYSIS EXTRACTION	NA																		
	END OF SERVICE LIFE	Not specified																		
MISC. PROPERTIES	QUALITIES/PROPERTIES OF PRODUCT	Varies based on the type of product but in general: Solid, homogeneous sheet Durable, hard wearing Bactericidal properties Naturally anti-static Easy and cost effective maintenance																		

		<p>Indentation Resistant Heat weldable seams</p>
	MISC. COMMENTS	<p>It is the "natural" choice for applications such as lobbies, corridors, corporate offices, retail shops, class rooms, patient rooms or anywhere an attractive, hard wearing, easily maintained floor covering is desired. Marmoleum Topshield finish provides occupancy ready, lower maintenance floors, and Marmoleum had natural bacteriostatic properties proven in renowned laboratories.</p>
	CONTRIBUTION TO LEED POINTS	<p>Contributes to the following LEED® credits:</p> <p>Materials & Resources Credit 4: Recycled Content (46.5% Pre-Consumer) Credit 6: Rapidly Renewable Materials (33%)</p> <p>Indoor Environmental Quality Credit 4.3: Low-Emitting Materials (Listed on LEM Table) Credit 4.1: Low-Emitting Materials (Adhesive complies with SCAQMD Rule #1168)</p> <p>Construction Waste Management Sustainable Attributes Innovation & Design</p>
<u>COMPANY PROFILE</u>	GREEN PHILOSOPHY	<p>Forbo Flooring Systems: take good care of the environment. From an ergonomic, economical and ecological point of view, our Marmoleum is the natural choice for floor coverings and furniture surfaces. We provide a clear insight into our environmental performance and into our commitment to continued process improvement.</p> <p>Life-cycle analyses (LCAs) are applied throughout the world to quantify the potential environmental impacts of a product system over the lifecycle (i.e. from the extraction of the raw materials to the disposal of the product at the end of its useful life).</p> <p>A product's 'eco-balance' is based on an analysis of: its durability and whether its production;</p> <ul style="list-style-type: none"> - Uses primary energy carriers, such as mineral oil and gas; - Depletes scarce raw materials; - Has fertilization effects; - Leads to acidification; - Damages the ozone layer; - Contributes to global warming; - Produces waste products. <p>The results of an LCA of a number of floor coverings rank Marmoleum first as a nature-friendly floor covering, together with pure, unlacquered wood. In addition, Marmoleum earned an honorable mention for its long lifespan.</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