

Floorworks® by Mats Inc.

Technical Data

Description

Heterogeneous Luxury Vinyl Tile and Plank flooring that is ISO 9001 and ISO 14001 certified

Technical Specifications

ASTM Specification	ASTM F1700 Standard Specification for Solid Vinyl Floor Tile
ASTM Classification	Class III Heterogonous
Tile Size	Varies by SKU: 12" x 18", 18" x 18", 12" x 24", 12" x 12", 36" x 36", 12" x 36", 18" x 36" (36 sq. ft. per case)
Plank Size	Varies by SKU: 4" x 36", 6" x 36", 6" x 48", 3" x 36", 9" x 36", 7.2" x 48" (36 sq. ft. per case)
Surface	Various surface textures available
Backing	Solid PVC
Weight	Standard Heavy Commercial: approximately 1 lbs. /sq. ft.
Overall Thickness	Standard Heavy Commercial: 3.0 mm, Options (varies by SKU): 2.0 mm, 2.5 mm, or 5.0 mm

Safety	Test	Requirement	Results
Critical Radiant Flux	ASTM E648	> 0.45 w/cm ² or higher for Class 1	Class 1
Smoke Density	ASTM E662	Specific optical density (corrected): max. 450 in the flaming mode	Pass
Slip Resistance	ASTM D2047	none (Not suitable for ramps)	All are ≥ 0.8 wet or dry, depending on surface texture

Performance

Sound Absorption	ASTM E989	Impact Insulation Class (IIC)	IIC 37
Dimensional Stability	ASTM F2199	Maximum ± 0.1%	Pass < 0.1%
Chemical Resistance	ASTM F925	Best = No Change	No Change
Flexibility	ASTM F137	No cracks/breaks	Pass
Squareness	ASTM F2055	in inches	≤ 0.005

Durability

Wear Layer Thickness	Standard Heavy Commercial: 0.5 mm, options available by SKU: 0.7 mm, 0.8 mm, or 1.0 mm		
Shore Hardness	ASTM D2240	Shore Hardness Type A	> 95
Static Load	ASTM F970	Residual Indentation ≤ 0.005" under 175 lbs. pressure	≤ 0.005" under 1000 lbs.
Color Fastness to Heat	ASTM F1514	Max. average delta E of 8	Pass
Color Fastness to Light	ASTM F1515	Max. average delta E of 8	Pass

Wear group classification	EN 685	34 = commercial, very heavy load 43 = industrial, heavy load	34 and 43
Warranty		3.0mm Heavy Commercial Use 2.5mm Light Commercial Use	10 years 10 years

Adhesive

Perma-Bond	≤ 90% RH (ASTM F2170) No ASTM F1869 or pH testing required	1/16 x 1/16 x 1/16 th V-notched (ACT)	Coverage ~ 150-175 sq. ft. per gallon. Absorptive substrate required
Perma-Spray 2000	≤ 85% RH (ASTM F2170) ≤ 7 lbs. (ASTM F1869) pH between 7 - 11	Spray application	Coverage ~ 160-190 sq. ft. (not for use over QC)
Mapei Ultrabond G-21	≤ 75% RH (ASTM F2170) No ASTM F1869 or pH testing required	1/32" x 1/16" x 1/32" U-notched trowel (ACT). The performance and defect warranty remains with the manufacturer	Coverage 185 - 245 sq. ft. per gallon. Suitable for heavy rolling loads
MI 3000 PU	≤ 85% RH (ASTM F2170) No ASTM F1869 or pH testing required	1/32" x 1/16" x 1/32" U-notched trowel (ACT).	Coverage 185 - 245 sq. ft. per gallon. Suitable for heavy rolling loads

LEED v3

MR Credit 4	Recycled Content	For 1 – 2 points: \$ value of all materials = min. average 10% recycled content	28% Pre-consumer
IEQ Credit 4.1	Low-Emitting Materials (Adhesives)	For 1 point: low-emitting adhesive with a VOC of 70 g/L or less for multipurpose adhesive	Perma-Bond, Perma-Spray and Mapei G-21 are FloorScore® Certified
IEQ Credit 4.1	Low-Emitting Materials (Sealants)	For 1 point: low-emitting sealer with a VOC of 350 g/L or less	Dr. Schutz Sealer Finish with Cross Linker VOC: 77 g/L
IEQ Credit 4.3	Low-Emitting Materials (Flooring)	For 1 point: low-emitting flooring per Green Label Plus or FloorScore™	FloorScore® Certified

LEED v4

Material and Resources (MR)	Environmental Product Declarations	For 1 point: use at least 20 different permanently installed products sourced from at least five different manufacturers that have a publicly available EPD. (Option 1)	3 rd Party Certified EPD Available
Material and Resources (MR)	Sourcing of Raw Materials	For 1 point: use products that meet at least one of the responsible extraction criteria for at least 25%, by cost, of the total value of permanently installed building products. (Option 2)	Recycled Content: 28% Pre-Consumer

Material and Resources (MR)	Material Ingredients	For 1 point: use at least 20 different permanently installed products from at least five different manufacturers that use any an USGBC approved program for reporting material ingredients. (Option 1)	HPD in progress
Indoor Environmental Quality (IEQ)	Low Emitting Materials (Flooring)	For up to 3 points: achieve threshold emission compliance for the required number of product categories or using the budget calculation method.	FloorScore® Certified
Indoor Environmental Quality (IEQ)	Low Emitting Materials (Adhesives)	For up to 3 points: achieve threshold emission compliance for the required number of product categories or using the budget calculation method.	Perma-Bond, Perma-Spray and Mapei G-21 are FloorScore® Certified