

PVC-FREE PERFORMANCE



Declare.

MOTO

Inhaus Surfaces Ltd.

Final Assembly: Bunkyo-ku, Tokyo, Japan

Life Expectancy: Commercial: 15 Year(s)

End of Life Options: Recyclable (100%)

Ingredients:

Filler: Calcium carbonate; Polymer: Polypropylene; Stabilizer: Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-, phosphate Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-; UV Coat: Hexanedioic acid, polymer with 1,2-ethanediol and 1,6-diisocyanato-2,2,4-(or 2,4,4-trimethyl)hexane, 2-hydroxyethyl acrylate-blocked; 4-(1-((OXO-2-PROPENYL)-MORPHOLINE; 2-Propenoic acid, (1-methyl-1,2-ethanediyl) bis(oxy(methyl-2,2-ethanediyl)) ester; 2-Propenoic acid, 1,5-hexanediyl ester; Amorphous silica; Pigment/Ink: Ethyl Acetate; 2-Propanol 1-methoxy-; Isopropyl alcohol; Methyl Ethyl Ketone

Living Building Challenge Criteria: Compliant

I-13 Red List:

■ LBC Red List Free

□ LBC Red List Approved

□ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: CDPH Standard Method v1.2-2017

I-14 Responsible Sourcing: Not Applicable

INH-0001

EXP. 01 DEC 2021

Original Issue Date: 2020

INTERNATIONAL LIVING FUTURE INSTITUTE™

living-future.org/declare

POLYPROPYLENE MINERAL COMPOSITE CORE

MOTO PVC-free resilient flooring is engineered to meet the performance and safety requirements of today’s most demanding commercial specifiers. Made with a Polypropylene and mineral composite, MOTO is highly durable and does not contain any phthalates, plasticizers, formaldehyde, or heavy metals, making it ideal for commercial applications, especially those that require low VOC emissions.

100% PVC-FREE

- No phthalates, plasticizers, formaldehyde, halogens, or heavy metals
- Third-party certified by FloorScore & Declare (Red List Free)
- Safe for use in spaces with stringent emission requirements

100% WATERPROOF

- Worry-free and easy to maintain
- Provides protection against the growth of mold

CHEMICAL & STAIN RESISTANCE

- Exceeds ASTM F925
(See chemical & stain resistance testing sheet)

DURABILITY

- AC6 Wear rating
- 20mil/0.5mm wear polypropylene layer warrantied to withstand commercial traffic

PVC-FREE CONSTRUCTION

1. WEAR LAYER

- Commercial rated 20 mil (0.5 mm) polypropylene wear layer
- UV coated for additional wear resistance
- Engineered for clarity

2. DECOR LAYER

- Polypropylene film
- Provides clear designs and vivid color

3. MINERAL COMPOSITE CORE

- Mineral Composite and Polypropylene (MCP)
- Waterproof, dent-proof, minimizes telegraphing
- Developed to meet advanced health and safety requirements

4. BALANCING LAYER

- Provides dimensional stability
- Engineered for maximum adhesive bond

SAFETY & PERFORMANCE

- Advanced slip resistance- meets “high traction” DCOF of .43
- Fire rating exceeds NFPA Critical Radiant Flux Requirements
- Dynamic rolling loads exceeds ASTM F2753
- Static load exceeds 2,000 psi ASTM F970
- Abrasion resistance exceeds requirements ASTM FD4060

FADE PROOF

- Will not fade over time when exposed to direct sunlight

MADE IN JAPAN

- Globally known for high-quality standards and superior end products

EASY APPLICATION

- MOTO uses a glue-down installation method and is designed to work with widely available commercial adhesives

MOTO

CHEMICAL & STAIN RESISTANCE

ASTM F925 (REGULAR)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	5% Acetic Acid (White Vinegar)	0	0	0	0	0	0
	70% Isopropyl Alcohol (Rubbing Alcohol)	0	0	0	0	0	0
	Mineral Oil	0	0	0	0	0	0
	5% Sodium Hydroxide	0	0	0	0	0	0
	5% Hydrochloric Acid	0	0	0	0	0	0
	5% Ammonia	0	0	0	0	0	0
	Bleach	0	0	0	0	0	0
	5% Phenol	1	0	0	1	0	0
ISO 26987 (LONSEAL)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	Citric Acid (10% Solution)	0	0	0	0	0	0
	Red Wine	0	0	0	0	0	0
	Celeste Sani-Pak Powder	0	0	0	0	0	0
	SkyKem Toilet Deodorant (Liquid)	0	0	0	0	0	0
	Urea (20% Solution)	0	0	0	0	0	0
	Coffee	0	0	0	0	0	0
	Mustard	0	0	0	0	0	0
	Ketchup	0	0	0	0	0	0
ASTM F925 (MODIFIED)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	Ammonia (5% NH OH)	0	0	0	0	0	0
	Hand Sanitizer	0	0	0	0	0	0
	Brake Fluid	0	0	0	0	0	0
	De-icing Fluid	0	0	0	0	0	0
	Hydraulic Oil	0	0	0	0	0	0
	Jet Fuel	0	0	0	0	0	0
	Motor Oil	0	0	0	0	0	0
	Skydrol	0	0	0	0	0	0
ASTM F925 (MODIFIED)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	Cidex	0	0	0	0	0	0
	Cidex OPA	0	0	0	0	0	0
	Metricide	0	0	0	0	0	0
	Kinyoun's Carbofuchian	0	0	3	0	0	3
	Gram's Safranin	0	0	0	0	0	0
	Crystal Violet	0	0	0	0	0	0
	Gram's Iodine	0	0	0	0	0	0
	Methylene Blue	0	0	0	0	0	0
ASTM F925 (MODIFIED)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	Bouin's Solution	0	0	2	0	0	2
	Betadine	0	0	0	0	0	0
	A456 II Germicide	0	0	0	0	0	0
	Blood	0	0	0	0	0	0
	Mineral Spirits	0	0	0	0	0	0
	Potassium Permanganate	0	0	3	0	0	3
	Aniline Blue	0	0	0	0	0	0
	Hematoxylin	0	0	0	0	0	0
ASTM F925 (MODIFIED)	Staining Agent	5 MINUTES			2 HOURS		
		Surface Dulling	Surface Attack	Color Change	Surface Dulling	Surface Attack	Color Change
	Bicarbonate	0	0	0	0	0	0
	Purell	0	0	0	0	0	0
	Hydrogen Peroxide	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0

LEGEND

- 0 = No Change
- 1 = Slight
- 2 = Moderate Change
- 3 = Severe Change

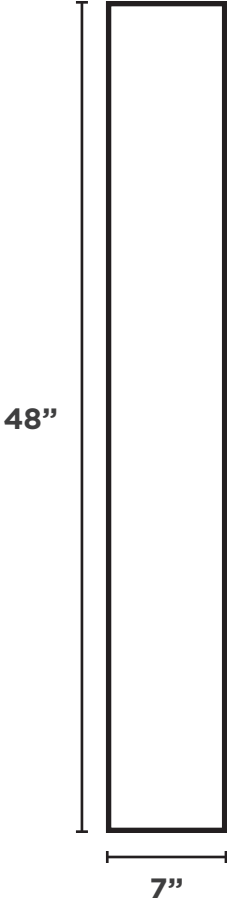
COMMERCIAL COLLECTION
BY INHAUS

PRODUCT RANGE

		
LANGDALE 9197	ROCKCLIFF 9191	KENSINGTON 9188
		
DEMPSEY 9187	AUTUMNWOOD 9189	DELBROOK 9192
		
HANDSWORTH 9193	BRIDGEPORT 9198	BREEZEHILL 9190
		
KILBY 9194	HEATHER 9195	ARGYLE 9196

Color may vary between actual product and printed images. Always make your selection from an actual product sample.

PHYSICAL PROPERTIES & PACKAGING

PLANK THICKNESS	3.0MM	
CONSTRUCTION	MULTI-LAYER	
CORE MATERIAL	POLYPROPYLENE MINERAL COMPOSITE CORE	
WEAR LAYER	0.50 MM (20 MIL) POLYPROPYLENE	
FINISH	UV PROTECTIVE COATING	
BEVEL	4-SIDED EASED EDGE	
INSTALLATION TECHNOLOGY	GLUE DOWN	
PLANK DIMENSIONS	48” (1219 MM) X 7” (178 MM)	
SURFACE TEXTURE	WOOD GRAIN	
SF/CARTON	32.66	
VOC CERTIFICATION	FLOORSCORE LIFETIME RESIDENTIAL /15 YEAR COMMERCIAL	
WARRANTY	JAPAN	
COUNTRY OF MANUFACTURE		

SAFETY SPECIFICATIONS

TEST DESCRIPTION	REQUIREMENTS	RESULTS	TEST METHOD
Critical Radiant Flux	≥ 0.45 W/cm² or more Class I	Meets Requirements	ASTM E648, also ref as NFPA 253 and FTM Std 372
Smoke Density	Flaming & Non-Flaming <450	Meets Requirements	ASTM E662 also ref as NFPA 258
Flammability	Not extend to within 1.0 in.	Meets Requirements	ASTM D2859
Resistance to Fungi	Refer to Standard	Resistant to bacteria, fungi, and micro-organism activity.	ASTM G21
Chemical Emissions (VOC's) Certification	Refer to Standard	FloorScore Certified	N/A
Heavy Metals Content Analysis Sb, As, Ba, Cd, Cr, Hg, Pb, Se	Refer to Standard	None detected	16 CFR 1303/CP-SC-CH-E-1003-09
Slip Resistance	≥ 0.6 SCOF Wet & Dry	Exceeds Rqmts (Not recommended for ramps)	ASTM D2047
Protection of Electrostatic Discharge (Data Only)	Surface to Ground 50% Humidity 1.8 x 10 ¹¹ Ohms at 12% Humidity 5.4 x 10 ¹¹ Ohm Surface to Surface 50% Humidity 2.7 x 10 ¹¹ Ohms at 12% Humidity >10.0 x 10 ¹¹ Ohm		ANSI/ESD S7.1

PERFORMANCE SPECIFICATIONS

TEST DESCRIPTION	REQUIREMENTS	RESULTS	TEST METHOD
Product Specifications	Resilient Flooring in Modular Format with Rigid Polymeric Core	Commercial Class i, Type B, Backing Class A	ASTM F3261-17
Chemical Resistance	No more than “Slight Change”	Exceeds Requirements	ASTM F925
Resistance to Heat	≤ 8.0 Delta E Requirement	Exceeds Requirements	ASTM F1514
Resistance to Light	≤ 8.0 Delta E Requirement	Exceeds Requirements	ASTM F1515
Geometrical Characteristics	Refer to Standard	Exceeds Requirements	ISO 24337
Flexibility	6 to 120 mm Mandrel	Meets Requirements	ASTM F137
Surface Bond	≥ 1.5 N/mm2	Exceeds Requirements	NALFA 3.10
Shore A Hardness	≥ 70	Exceeds Requirements	ASTM D2240
Wear Resistance	No more than “Slight Change”	AC6 >8500 Cycles	EN 13329
Residual Indentation at 140 lbs	Average ≤ 8%; Any Sample ≤ 10%	Exceeds Rqmts (2000 psi)	ASTM F1914
R-Value/Thermal Conductivity	Refer to Standard	0.060 F ft2 h/Btu	ASTM C518
Dimensional Stability	0.2 % / lineal ft (305 mm) max	Exceeds	ASTM F2199
Static Electrical Propensity	≤ 3.5 kV	Avg max 3.4 kV Negative Polarity	AATCC 134
Thickness Swelling	≤ 8 %	Exceeds Requirements	ISO 24336
Dynamic Rolling Load	100 lbc (per wheel), 500 cycles	Exceeds Requirements	ASTM D2047
Static Load	≤ 0.005", 250-Lbs. Load	Exceeds rqmts, Static Load Limit 2,000 psi	ASTM F970
Wear Resistance	Refer to Standard	Exceeds Rqmts, AC6>8500 cycles	EN 13329
Abrasion Resistance	500 grams @1,000 cycles	Exceeds Rqmts, load applied 1,000 grams, at 20,000 cycles endpoint not reached	ASTM D4060
Castor Chair Resistance	No Damage>25,000 Cycles	Exceeds, AATCC Rating 5	ISO 4918

APPROVED ADHESIVES

MAPEI	Ultrabond ECO 350	Transitional Pressure Sensitive (Acrylic) Direct bond to porous substrates	TAYLOR	Pinnacle	Transitional Pressure Sensitive (Acrylic)
	Ultrabond ECO 360	Transitional Pressure Sensitive (Acrylic) Direct bond to porous substrates		Dynamic (2098)	Transitional Pressure Sensitive (Acrylic)
	Ultrabond ECO 373	Pressure Sensitive (Acrylic) ‘Double Stick’, nonporous substrates		Resolute	Modified urethane - STPE polymer-based (Hybrid Propel TM)
SIKA	Sika Bond® T-21	Polyurethane	BOSTIX	Stix 2230	Pressure Sensitive (Acrylic)
	Sika Bond® T-35	Polyurethane		HydraStix 95	Transitional (Acrylic)
	Sika Bond® T-55	Polyurethane			

Note: Other adhesives may be approved, please contact technical support for updated list