MOTO CONSTRUCTION

MINERAL COMPOSITE PLANK (MCP)

MOTO's Polypropylene mineral composite core is an innovative PVC-free alternative that provides excellent performance characteristics without compromising health and safety.

WEAR LAYER

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

DECOR LAYER

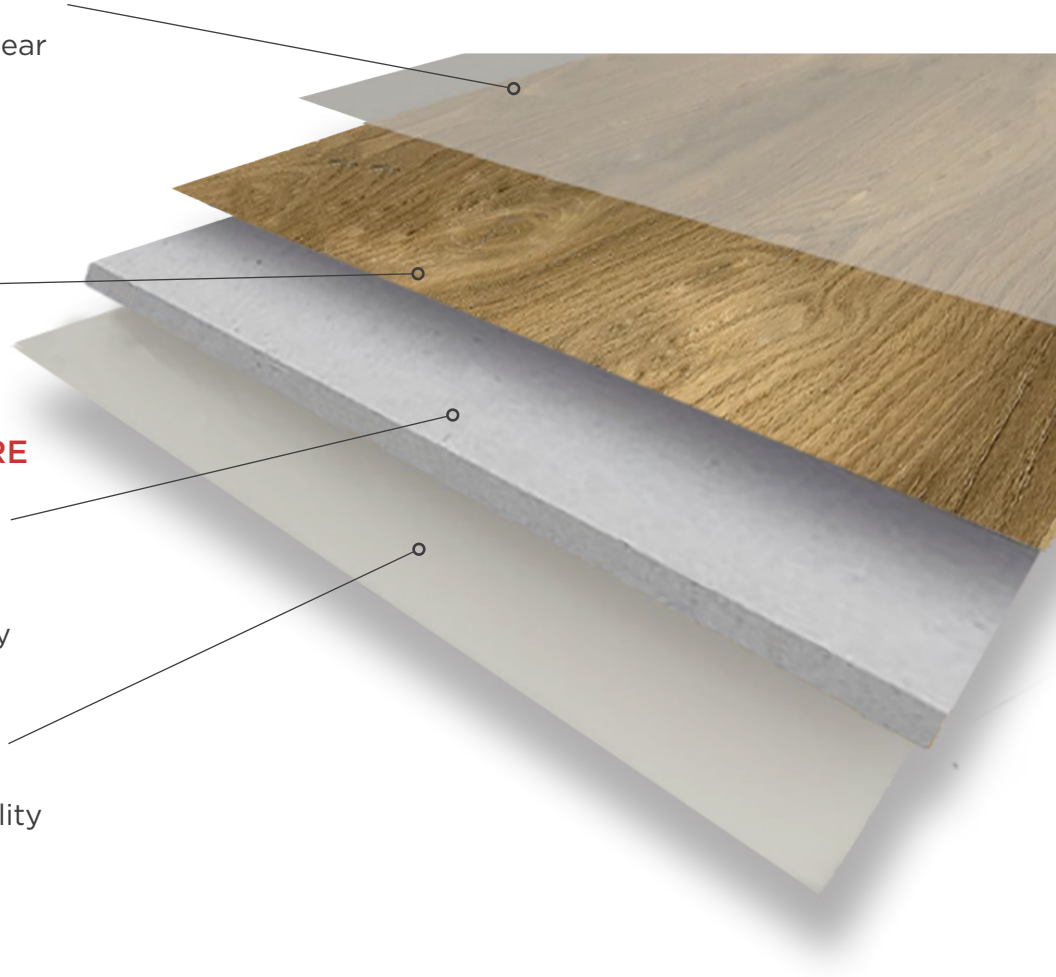
- Polypropylene film
- Provides clear designs and vivid color

MINERAL COMPOSITE CORE

- Mineral composite and Polypropylene
- Developed to meet advanced health and safety requirements

BALANCING LAYER

- Provides dimensional stability
- Engineered for maximum adhesive bond



Applicable Installation Areas:

Healthcare, Senior Living, Retail, Corporate/Office, Academic and Hospitality Environments

*Call customer service 1.888.255.3412 for specific applicable installation areas.

MOTO TECHNICAL DATA SHEET

PHYSICAL PROPERTIES & PACKAGING

PLANK THICKNESS	3.0 mm
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
WARRANTY	Lifetime Residential /15 Year Commercial
COUNTRY OF MANUFACTURE	Japan

L x W = 48” x 7”

SAFETY SPECIFICATIONS

TEST DESCRIPTION	REQUIREMENTS	RESULTS	TEST METHOD
Critical Radiant Flux	≥ 0.45 W/cm^2 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	
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% Humiity 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

MOTO PVC-FREE PERFORMANCE

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
Ultrabond ECO 360	Transitional Pressure Sensitive (Acrylic) Direct bond to porous substrates
Ultrabond ECO 373	Pressure Sensitive (Acrylic) ‘Double Stick’, nonporous substrates

SIKA

Sika Bond® T-21	Polyurethane
Sika Bond® T-35	Polyurethane
Sika Bond® T-55	Polyurethane

BOSTIX

Stix 2230	Pressure Sensitive (Acrylic)
HydraStix 95	Transitional (Acrylic)

TAYLOR

PINNACLE	Transitional Pressure Sensitive (Acrylic)
DYNAMIC (2098)	Transitional Pressure Sensitive (Acrylic)
RESOLUTE	Modified urethane - STPE polymer-based (Hybrid Propel TM)

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

CHEMICAL & STAIN RESISTANCE MOTO

ASTM F925 (Regular)

Staining Agent	5 MINUTES			24 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 (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
Gasoline	0	0	0	0	0	0
Sulfuric Acid	0	0	0	0	0	0
Kerosene	0	0	0	0	0	0
Olive Oil	0	0	0	0	0	0

ASTM F925 (Modified)

Staining Agent	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 Carbolfuchian	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
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
Bicarbonate	0	0	0	0	0	0
Purell	0	0	0	0	0	0
Hydrogen Peroxide	0	0	0	0	0	0
Disinfectants: Phenolic/Quaternary	0	0	0	0	0	0

ISO 26987 (Lonseal)

Staining Agent	2 HOURS
Citric Acid (10% Solution)	0
Red Wine	0
Celeste Sani-Pak Powder	0
SkyKem Toilet Deodorant (Liquid)	0
Urea (20% Solution)	0
Coffee	0
Mustard	0
Ketchup	0
Bleach (5.25% NaOCL)	1

Staining Agent	2 HOURS
Ammonia (5% NH OH)	0
Hand Sanitizer	0
Brake Fluid	0
De-icing Fluid	0
Hydraulic Oil	0
Jet Fuel	0
Motor Oil	0
Skydrol	0

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