



BioSpec® Choices Collection

Mannington
COMMERCIAL



Cover: BioSpec® MD - Bright White 15246, Ladybird 15416
Above: BioSpec® SR - Sandrift 67203, Bright White 67246









BioSpec® SR - Hojicha 67417



BioSpec® FB - Bedrock 10369, Oyster White 10201



QUANTUM GUARD®
elite

Success Is in Our Science

Introducing Quantum Guard Elite, the patent-pending technology that provides the complete performance solution for heterogeneous sheet flooring.

- Engineered for ease of cleaning and reduced maintenance costs
- Highest abrasion resistance in the industry
- Advanced stain resistance
- Excellent slip resistance

Cleans Better Than Competitors

Quantum Guard Elite

Leading Competitor



Advanced urethane chemistry and an optimized texture make resilient sheet with Quantum Guard Elite easy to clean. (Results after 10 passes with a wet microfiber mop on soiled floor.)

Best-in-Class Abrasion Resistance

Quantum Guard Elite

Leading Competitor



Our proprietary blend of aluminum oxide particles is suspended evenly through the urethane top coat, giving the industry's best abrasion resistance. (Results after 50 passes with sanding block.)

Stain Resistance That Endures

Quantum Guard Elite

Leading Competitor



With new protective compounds from the aerospace industry and dentistry, Quantum Guard Elite's stain resistance performs over time at the same high level as the day it was installed. (Results after 1,000 passes with a sanding block, staining with a blue Sharpie and cleaning with an alcohol wipe.)

Warranted to Work

Products with Quantum Guard Elite feature our Limited Quantum Guard Elite Wear Warranty and Limited Commercial Warranty.



QUANTUM GUARD®
elite

Success Is in Our Science

Introducing Quantum Guard Elite, the patent-pending technology that provides the complete performance solution for homogeneous sheet flooring.

- Engineered to trap less dirt, delivering ease of cleaning and reduced maintenance costs
- Industry-leading stain resistance outperforms competing products
- Excellent slip resistance for enhanced safety
- Advanced light resistance keeps colors beautiful

Cleans Better Than Competitors

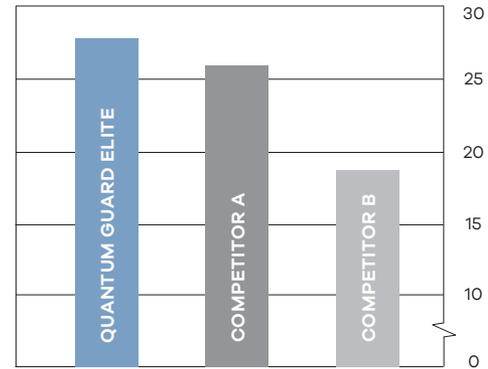
Quantum Guard Elite

Leading Competitor



Advanced urethane chemistry and an optimized texture make resilient sheet with Quantum Guard Elite easier to clean than competitors. *(Results after 10 passes with a wet microfiber mop on soiled floor.)*

Excellent Slip Resistance



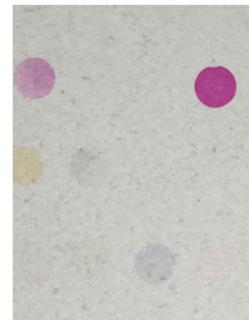
BRITISH PENDULUM NUMBER

Quantum Guard Elite is engineered to provide greater slip resistance, improving the safety of the facility by helping reduce slip and fall hazards. *(Results from testing with the British Pendulum Tester, ASTM E303.)*

Industry-Leading Stain Resistance

Quantum Guard Elite

Leading Competitor



With new protective compounds from the aerospace industry and dentistry, Quantum Guard Elite leads the industry in resistance to stains, including tough medical staining agents. *(Results after applying multiple medical staining agents to flooring, waiting one hour and wiping with an alcohol wipe.)*

Warranted to Work

Products with Quantum Guard Elite feature our Limited Quantum Guard Elite Wear Warranty and Limited Commercial Warranty.

BioSpec® Choices

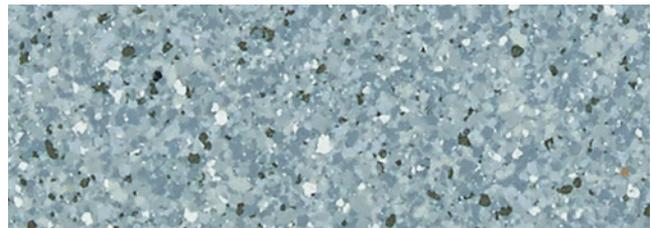
BioSpec® Choices	BioSpec® MD	BioSpec® FB	BioSpec® SR	BioSpec® RE
Quantum Guard Elite®	✓	✓	✓	✓
Recycled Content				✓+
Ease of Installation	✓	✓+	✓	✓+
Ease of Maintenance	✓+	✓+	✓	✓+
Coefficient of Friction (meets ADA guidelines)	✓	✓	✓+	✓
Made in the USA	✓	✓	✓	✓
Low-Contrast Visual	✓	✓	✓	✓
Price	\$\$	\$	\$\$\$	\$\$\$
PSI	2,000	1,000	2,000	2,000
Number of Colorways	70	16	16	16

BioSpec MD - Homogeneous Sheet



High performance, low maintenance. BioSpec MD - Homogeneous Sheet is your choice for demanding healthcare environments.

BioSpec FB - Felt Back



This felt back version of our classic BioSpec product is your choice for reducing cost in lighter traffic areas of your space.

BioSpec SR - Slip Resistant



The choice for your spaces that require a slip resistant flooring. BioSpec SR provides superior traction in a low-contrast visual.

BioSpec RE - Recycled Content



Provides a great choice for incorporating high levels of recycled content (35%) into your project.

BioSpec® Choices Collection

Style	BioSpec® FB
Construction	Heterogeneous Sheet Non-ortho phthalate construction
Classification	ASTM F1303 Type II, Grade 1, Class A
Total Thickness	0.080" (2.03 mm)
Wear Layer Thickness	0.066" (1.67 mm)
Wear Layer	Quantum Guard Elite®
Width	6'6" (2 m)
Colors	16
Pattern Repeat	Random repeat, reverse sheet for seaming
Packaging	30-73 yd ² (25.1-61.04 m ²)
Weight	5.7 lbs/yd ² (2.585 kg/m ²)
Adhesive	Porous Substrates Only: V-81 Full Spread, Premium Latex
Seam Method	Mannington Commercial Weld Rods or MCS-42 Chemical Seam Sealer with VST-96 Application Kit. Mannington Seam Coater Pen for high traffic areas. Note: Heat welding is the recommended procedure for healthcare and high traffic applications.
Testing	
HUD/FHA	Meets / Exceeds
ADAG (American Disability Act Guidelines)	Passes
Flexibility (ASTM F137)	Passes - 1 1/2" Mandrel - No Crack/Break
Static Load (ASTM F970)	Passes - Resid. Indent ≤ 0.005"
Static Load (ASTM F970 mod.)	Passes - 1,000 PSI; Resid. Indent ≤ 0.005"
Rolling Resistance/Caster Chair (ISO 4918)	25,000 Cycles, No Significant Change
Short Term Residual Indentation (ASTM F1914/F1303)	Passes - Must Be < 0.007"
Flooring Radiant Panel (ASTM E648)	Passes - Class 1; ≥ 0.45 watts/cm ²
Smoke Density (ASTM E662)	Passes - ≤ 450
Slip Resistance (ASTM C1028, Dry)	Passes - ≥ 0.5 Leather; 0.6 Rubber
Acoustic IIC (ASTM E492)	50 - 6" Concrete with Drop Ceiling
Acoustic STC (ASTM E90)	63 - 6" Concrete with Drop Ceiling
Resistance to Light (ASTM F1515)	Passes - < 8 Delta E Color Change
Chemical Resistance (ASTM F925)	Passes - No More Than Slight Change
Resistance to Heat (ASTM F1514)	Passes - < 8 Delta E Color Change
Resistance to Mold/Mildew (ASTM G21/E2180)	Passes - No More Than Slight Change
Environmental Data	
Indoor Air Quality	FloorScore Certified; CDPH v11-2010
Product Declarations	EPD
LEED Scoreboard	May contribute to LEED credits: LEED 2009: MRc5 Regional Materials; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEED v4: Building Product Disclosure & Optimization - EPDs; IEQc2 - Low Emitting Materials
mindful MATERIALS	Visit mM Origin website, mindfulmaterials.origin.build , for current transparency information
Manufacturing	Salem, NJ (USA) - ISO 14001 EMS Registered
Warranty	
	Limited 5-Year Commercial Warranty Limited 5-Year Quantum Guard Elite® Wear Warranty

BioSpec® Choices Collection

Style	BioSpec® SR
Construction	Homogeneous Slip Resistant Sheet Non-ortho phthalate construction
Classification	ASTM F1913 Sheet Vinyl Floor Covering without Backing
Total Thickness	0.080" (2.03 mm)
Wear Layer	Quantum Guard Elite®
Width	6'6" (2 m)
Colors	16
Pattern Repeat	Random repeat, reverse sheet for seaming
Packaging	30-73 yd ² (251-61.04 m ²) (73 yd ² roll is approx. 100 lineal feet)
Weight	6.5 lbs/yd ² (2.948 kg/m ²)
Adhesive	Porous & Non-porous Substrates: V-88 Full Spread, Transitional Pressure Sensitive, High Moisture V-95 Full Spread, 2-part Epoxy MoistureLoc® Full Spread, One Component XpressStep for LVT & Sheet Vinyl Full Coverage Spray Porous Substrates Only: V-82 Full Spread, Acrylic Base Note: Must use V-95, MoistureLoc or XpressStep adhesive under hospital beds and heavy rolling load areas. Use V-95 or MoistureLoc in Operating Rooms or where higher risk of topical moisture would be a concern.
QuickStix®	Available with QuickStix® pre-applied adhesive, reducing time and labor required to install the flooring. QuickStix® floors can be used immediately after installation, even in extreme moisture areas. Packaging may differ for QuickStix®.
Seam Method	Mannington Commercial Weld Rods or MLG-33 Chemical Seam Sealer. Mannington Seam Coater Pen for high traffic areas. Note: Heat welding is the recommended procedure for healthcare and high traffic applications.
Testing	
HUD/FHA	Meets / Exceeds
ADAG (American Disability Act Guidelines)	Passes
Flexibility (ASTM F137)	Passes - 1 1/2" Mandrel - No Crack/Break
Static Load (ASTM F970)	Passes - Resid. Indent ≤ 0.005"
Static Load (ASTM F970 mod.)	Passes - 2,000 PSI; Resid. Indent ≤ 0.005"
Rolling Resistance/Caster Chair (ISO 4918)	25,000 Cycles, No Significant Change
Short Term Residual Indentation (ASTM F1914/F1303)	Passes - Must be < 0.007"
Flooring Radiant Panel (ASTM E648)	Passes - Class 1; ≥ 0.45 watts/cm ²
Smoke Density (ASTM E662)	Passes - ≤ 450
Slip Resistance (ASTM C1028, Dry)	Passes - ≥ 0.5 Leather; 0.6 Rubber
Acoustic IIC (ASTM E492)	50 - 6" Concrete with Drop Ceiling
Acoustic STC (ASTM E90)	63 - 6" Concrete with Drop Ceiling
Resistance to Light (ASTM F1515)	Passes - < 8 Delta E Color Change
Chemical Resistance (ASTM F925)	Passes - No More Than Slight Change
Resistance to Heat (ASTM F1514)	Passes - < 8 Delta E Color Change
Resistance to Mold/Mildew (ASTM G21/E2180)	Passes - No More Than Slight Change
Environmental Data	
Indoor Air Quality	FloorScore Certified; CDPH v1.1-2010
Product Declarations	EPD
LEED Scoreboard	May contribute to LEED credits: LEED 2009: MRc5 Regional Materials; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEED v4: Building Product Disclosure & Optimization - EPDs; IEQc2 - Low Emitting Materials
mindful MATERIALS	Visit mM Origin website, mindfulmaterials.origin.build, for current transparency information
Manufacturing	Salem, NJ (USA) - ISO 14001 EMS & ISO 9001 QMS Registered
Warranty	
	Limited 5-Year Commercial Warranty Limited 5-Year Quantum Guard Elite® Wear Warranty

Note: Visual/Color variations can occur from roll to roll. This variation does not affect product performance.

BioSpec® Choices Collection

Style	BioSpec® MD
Construction	Homogeneous Sheet Non-ortho phthalate construction
Classification	ASTM F1913 Sheet Vinyl Floor Covering without Backing
Total Thickness	0.080" (2.03 mm)
Wear Layer	Quantum Guard Elite®
Width	6'6" (2 m)
Colors	70
Pattern Repeat	Random repeat, reverse sheet for seaming
Packaging	30-73 yd ² (25.1-61.04 m ²) (73 yd ² roll is approx. 100 lineal feet)
Weight	6.5 lbs/yd ² (2.948 kg/m ²)
Adhesive	Porous & Non-porous Substrates: V-88 Full Spread, Transitional Pressure Sensitive, High Moisture V-95 Full Spread, 2-part Epoxy MoistureLoc® Full Spread, One Component XpressStep for LVT & Sheet Vinyl Full Coverage Spray Porous Substrates Only: V-82 Full Spread, Acrylic Base Note: Must use V-95, MoistureLoc or XpressStep adhesive under hospital beds and heavy rolling load areas. Use V-95 or MoistureLoc in Operating Rooms or where higher risk of topical moisture would be a concern.
QuickStix®	Available with QuickStix® pre-applied adhesive, reducing time and labor required to install the flooring. QuickStix® floors can be used immediately after installation, even in extreme moisture areas. Packaging may differ for QuickStix®.
Seam Method	Mannington Commercial Weld Rods or MCS-42 Chemical Seam Sealer with VST-96 Application Kit. Mannington Seam Coater Pen for high traffic areas. Note: Heat welding is the recommended procedure for healthcare and high traffic applications.
Testing	
HUD/FHA	Meets / Exceeds
ADAG (American Disability Act Guidelines)	Passes
Flexibility (ASTM F137)	Passes - 11/2" Mandrel - No Crack/Break
Static Load (ASTM F970)	Passes - Resid. Indent ≤ 0.005"
Static Load (ASTM F970 mod.)	Passes - 2,000 PSI; Resid. Indent ≤ 0.005"
Rolling Resistance/Caster Chair (ISO 4918)	25,000 Cycles, No Significant Change
Short Term Residual Indentation (ASTM F1914/F1303)	Passes - Must be < 0.007"
Flooring Radiant Panel (ASTM E648)	Passes - Class 1; ≥ 0.45 watts/cm ²
Smoke Density (ASTM E662)	Passes - ≤ 450
Slip Resistance (ASTM C1028, Dry)	Passes - ≥ 0.5 Leather; 0.6 Rubber
Acoustic IIC (ASTM E492)	50 - 6" Concrete with Drop Ceiling
Acoustic STC (ASTM E90)	63 - 6" Concrete with Drop Ceiling
Resistance to Light (ASTM F1515)	Passes - < 8 Delta E Color Change
Chemical Resistance (ASTM F925)	Passes - No More Than Slight Change
Resistance to Heat (ASTM F1514)	Passes - < 8 Delta E Color Change
Resistance to Mold/Mildew (ASTM G21/E2180)	Passes - No More Than Slight Change
Environmental Data	
Indoor Air Quality	FloorScore Certified; CDPH v1.1-2010
Product Declarations	EPD
LEED Scoreboard	May contribute to LEED credits: LEED 2009: MRc4 Recycled Content; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEED v4: Building Product Disclosure & Optimization - EPDs; Building Product Disclosure & Optimization - Sourcing Raw Materials; IEQc2 - Low Emitting Materials
mindful MATERIALS	Visit mM Origin website, mindfulmaterials.origin.build, for current transparency information
Manufacturing	Salem, NJ (USA) - ISO 14001 EMS & ISO 9001 QMS Registered
Warranty	
	Limited 10-Year Commercial Warranty Limited 10-Year Quantum Guard Elite® Wear Warranty

Note: Visual/Color variations can occur from roll to roll. This variation does not affect product performance.

BioSpec® Choices Collection

Style	BioSpec® RE
Construction	Heterogeneous Sheet
Classification	ASTM F1303 Type II, Grade 2, Class B
Total Thickness	0.080" (2.03 mm)
Wear Layer Thickness	0.030" (0.76 mm)
Wear Layer	Quantum Guard Elite®
Width	6'6" (2 m)
Colors	16
Pattern Repeat	Random repeat, reverse sheet for seaming
Packaging	30-73 yd ² (25.1-61.04 m ²) (73 yd ² roll is approx. 100 lineal feet)
Weight	6.0 lbs/yd ² (2.722 kg/m ²)
Adhesive	Porous & Non-porous Substrates: V-88 Full Spread, Transitional Pressure Sensitive, High Moisture V-95 Full Spread, 2-part Epoxy MoistureLoc® Full Spread, One Component XpressStep for LVT & Sheet Vinyl Full Coverage Spray Porous Substrates Only: V-82 Full Spread, Acrylic Base Note: Must use V-95, MoistureLoc or XpressStep adhesive under hospital beds and heavy rolling load areas. Use V-95 or MoistureLoc in Operating Rooms or where higher risk of topical moisture would be a concern.
QuickStix®	Available with QuickStix® pre-applied adhesive, reducing time and labor required to install the flooring. QuickStix® floors can be used immediately after installation, even in extreme moisture areas. Packaging may differ for QuickStix®.
Seam Method	Mannington Commercial Weld Rods or MCS-42 Chemical Seam Sealer with VST-96 Application Kit. Mannington Seam Coater Pen for high traffic areas. Note: Heat welding is the recommended procedure for healthcare and high traffic applications.
Testing	
HUD/FHA	Meets / Exceeds
ADAG (American Disability Act Guidelines)	Passes
Flexibility (ASTM F137)	Passes - 1/4" Mandrel - No Crack/Break
Static Load (ASTM F970)	Passes - Residual Indent ≤ 0.005"
Static Load (ASTM F970 mod.)	Passes - 2,000 PSI; Residual Indent ≤ 0.005"
Rolling Resistance/Caster Chair (ISO 4918)	25,000 Cycles, No Significant Change
Short Term Residual Indentation (ASTM F1914/F1303)	Passes - Must be < 0.007"
Flooring Radiant Panel (ASTM E648)	Passes - Class 1; ≥ 0.45 watts/cm ²
Smoke Density (ASTM E662)	Passes - ≤ 450
Slip Resistance (ASTM C1028, Dry)	Passes - ≥ 0.5 Leather; 0.6 Rubber
Acoustic IIC (ASTM E492)	50 - 6" Concrete with Drop Ceiling
Acoustic STC (ASTM E90)	63 - 6" Concrete with Drop Ceiling
Resistance to Light (ASTM F1515)	Passes - < 8 Delta E Color Change
Chemical Resistance (ASTM F925)	Passes - No More Than Slight Change
Resistance to Heat (ASTM F1514)	Passes - < 8 Delta E Color Change
Resistance to Mold/Mildew (ASTM G21/E2180)	Passes - No More Than Slight Change
Environmental Data	
Recycled Content	Contains 35% recycled content - 20% post-consumer and 15% pre-consumer
Indoor Air Quality	FloorScore Certified; CDPH v1.1-2010
Product Declarations	EPD
LEED Scoreboard	May contribute to LEED credits: LEED 2009: MRc4 Recycled Content; IEQ4.1 Low Emitting Adhesives; IEQ4.3 Low Emitting Materials - Flooring LEED v4: Building Product Disclosure & Optimization - EPDs; Building Product Disclosure & Optimization - Sourcing Raw Materials; IEQc2 - Low Emitting Materials
mindful MATERIALS Manufacturing	Visit mM Origin website, mindfulmaterials.origin.build, for current transparency information Salem, NJ (USA) - ISO 14001 EMS Registered
Warranty	
	Limited 5-Year Commercial Warranty Limited 5-Year Quantum Guard Elite® Wear Warranty

Note: Visual/Color variations can occur from roll to roll. This variation does not affect product performance.