

FORBO MARMOLEUM® MODULAR TECHNICAL DATA

1. PRODUCT NAME & MANUFACTURER

1.1 Product:

Forbo Marmoleum® Modular linoleum tile resilient floor covering

1.2 Manufacturer:

Forbo Flooring Systems
Humboldt Industrial Park
Hazleton, PA 18202

www.forboflooringNA.com

Phone: +1-800-842-7839 (US)

+1-800-268-8108 (CA)

Fax: +1-570-450-0258



1.3 Product Description:

Construction: Marmoleum® Modular is a homogeneous floor covering made from natural ingredients including flax seed oil, rosin binders, wood flour, limestone and dry pigments which are mixed and then calendared onto a polyester backing to ensure optimum dimensional stability.

Topshield2™ is a high performance finish. Its double UV cured double layer technology delivers extraordinary performance and clear and vibrant colors that remain over time. Topshield2™ creates a 'ready to use' Marmoleum® that requires no initial maintenance or polymer application. The surface can be repaired or refreshed in cases of accidents or after years of intensive use.

1.4 Physical Characteristics:

(dimensions are approximate)

Size ----- 9.8" x 9.8" (25 cm x 25 cm)

----- 9.8" x 19.69" (25 cm x 50 cm)

----- 19.69" x 19.69" (50 cm x 50 cm)

Gauge----- 1/10" (2.5 mm)

Backing ---- Polyester

Packaging-- 9.8" x 9.8": 40 tiles (26.91 ft² or 2.5 m²)

----- 9.8" x 19.69": 40 tiles (53.82 ft² or 5 m²)

----- 19.69" x 19.69": 20 tiles (53.82 ft² or 5 m²)

2. PRODUCT PERFORMANCE & TECHNICAL DATA

2.1 Reference Specification:

Meets or exceeds all technical requirements as set forth in ASTM F 2195 Standard Specification for Linoleum Tile Flooring
Type I

2.2 Environmental:

100% USDA Certified BioBased Product.

Compliant with CDPH 01350 requirements for VOC emissions and indoor air quality.

Forbo Marmoleum® Modular contributes to LEED® v4 credits. For additional information, contact Forbo Flooring Systems.

2.3 Static Load Limit:

Residual compression of 0.002" with 250 pounds per square inch when tested in accordance with ASTM F 970-17, Standard Test Method for Static Load Limit.

2.4 Slip Resistance:

Meets or exceeds the industry recommendation of >0.5 for flat surfaces when tested in accordance with ASTM D 2047, Standard Test Method for Static Coefficient of Friction.

2.5 Castor Resistance:

Suitable for office chairs with castors when tested in accordance with EN 425, Castor Chair Test.

2.6 Impact Sound Reduction:

6dB when tested in accordance with ISO 717-2, Impact Sound Insulation Test.

2.7 Resistance to Bacteria:

Provides a self-sanitizing quality in the form of a bactericidal effect. Independent testing has shown that a sterile zone around the material inhibits the growth of organisms such as staphylococcus aureus and Clostridium difficile.

2.8 Anti-Static Properties:

Naturally anti-static. This property makes cleaning easier because dirt and dust does not cling to the surface as it may with other materials.

2.9 Fire Testing:

Class 1 when tested in accordance with ASTM E 648/ NFPA 253, Standard Test Method for Critical Radiant Flux. Meets 450 or less when tested in accordance with ASTM E 662/ NFPA 258, Standard Test Method for Smoke Density.

FSR – 115; SDC – 205 when tested in accordance to CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development of Flooring Materials. Class C when tested in accordance to ASTM E 84/ NFPA 255, Standard Test Method for Surface Burning Characteristics.

2.10 Cigarette Resistance:

Resists cigarette burns. Burning cigarettes will leave only a brown mark, which can be rubbed out using steel wool or a scouring pad.

2.11 Chemical Resistance:

(Exposure Time – 1h)*

Diluted Acids – Sulfuric, Nitric, Hydrochloric, Acetic,
 Lactic, Citric -----No Change
 Isopropyl Alcohol (70%) -----No Change
 Sodium Hydroxide (5%) -----Softening
 Ammonia (5%), Acetone ----- Possible Softening/Staining
 Soda Solution, Soap Solution
 (Slightly Alkaline)-----No Change
 Gasoline, Kerosene, White Spirit, Paraffin -----No Change
 Benzene, Toluene, Methyl Alcohol,
 Ethyl Acetate-----No Change
 Methyl Ethyl Ketone, Ether, Phenol (5%)-----No Change
 Mineral Oil, Olive Oil, Vegetable Oil,
 Animal Fat -----No Change
 Blood, Urine, Excrement ----- No Change
 Formaldehyde, Hydrogen Peroxide 3%-----No Change
 Hot Chili Paste, Iodine, Betadine, Hair Dye -----No Change
 Shoe Polish, Lipstick -----Staining
 Silver Nitrate ----- Staining/Possible Softening
 Bitumen, Salt Water-----No Change
 Methylene Blue -----Staining
 Gel-Based Hand Sanitizer, Bleach-----No Change
 Tested in accordance with ASTM F 925, Standard Test
 Method Resistance to Chemicals of Resilient Flooring.
 *Marmoleum® is NOT resistant to prolonged exposure to
 high alkalis.

3. INSTALLATION

3.1 Adhesive:

Use Forbo T 940, Forbo Sustain 1195, Forbo Sustain 1299,
 Forbo EZ-ON 100 or Forbo 660 adhesive.

3.2 Heat Welding:

Heat welding is not necessary for all installations,
 however it is optional. For seamless, hygienic watertight
 installation requirements, use Forbo Marmoweld welding
 rod.

Welding rod dimensions: 4 mm; 165 linear feet per spool.

3.3 Heat Welding Is Not Required:

Forbo Marmoweld... EZ to use is a color-matched sealant
 used to complete the installation of Forbo Marmoleum®
 in place of heat welding. To use, sparingly apply Forbo
 Marmoweld... EZ to use to all seams on the floor with a 1”
 (2.54cm) putty knife or plastic applicator. Ensure there
 are no sharp or damaged edges on the applicator that
 might scratch or damage the Forbo Marmoleum®. Wipe
 all excess Forbo Marmoweld... EZ to use off the surface of
 the Forbo Marmoleum® with a clean, damp white cloth.

3.4 Installation Guidelines:

Refer to Forbo’s Installation Guidelines for complete
 installation recommendations.

4. WARRANTY

Limited 30-year warranty. For complete details, contact
 Forbo Flooring.

5. CARE & CLEANING

Refer to Forbo’s Floor Care Guidelines for complete care
 recommendations.