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 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.