

# FORBO MARMOLEUM® COMPOSITION TILE (MCT) TECHNICAL DATA

## 1. PRODUCT NAME & MANUFACTURER

### 1.1 Product:

Forbo Marmoleum® Composition Tile (MCT) linoleum tile resilient floor covering

### 1.2 Manufacturer:

Forbo Flooring Systems  
Humboldt Industrial Park  
Hazleton, PA 18202

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### 1.3 Product Description:

Construction: Marmoleum® Composition Tile (MCT) 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 ----- 13.1" x 13.1" (33.3 cm x 33.3 cm)

Gauge----- 0.080" (2.0 mm)

Backing ---- Polyester

Packaging-- 45 tiles (53.82 feet<sup>2</sup> or 5 meters<sup>2</sup>)

## 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® Composition Tile (MCT) 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.