

# 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 US  
8 Maplewood Drive  
Hazleton, PA 18202  
1-800-842-7839

Forbo Flooring Systems Canada  
3983 Nashua Drive, Unit 1  
Mississauga, ON L4V 1P3  
1-800-268-8108 (English)  
1-800-567-9268 (French)

[www.forboflooringNA.com](http://www.forboflooringNA.com)

topshield

### 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. Topshield is a high-performance finish. Its double UV cured double layer technology delivers extraordinary performance and clear and vibrant colors that remain over time. Topshield 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 v4.1 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 ISO 4918, Castor Chair Test.

### 2.6 Impact Sound Reduction:

5dB 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 with CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development of Flooring Materials.

### 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)\***

Acetic Acid (5%)-----	No Change
Acetone -----	Slight Color Change
Ammonia (5%) -----	No Change
Betadine-----	No Change
Bleach-----	No Change
Brown or Black Hair Dye -----	No Change
Brown or Black Shoe Polish-----	No Change
Gasoline-----	No Change
Gel Hand Sanitizer-----	No Change
Hot Chili Paste-----	No Change
Hydrochloric Acid (5%) -----	No Change
Iodine -----	No Change
Isopropyl Alcohol (70%) -----	No Change
Kerosene -----	No Change
Methylene Blue -----	No Change
Mineral Oil -----	No Change
Olive Oil -----	No Change
Phenol (5%) -----	Slight Color Change
Sodium Hydroxide (5%) -----	No Change
Sodium Hypochlorite (5%)-----	No Change
Sulfuric Acid (5%)-----	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 Sustain 1195, Forbo Sustain 100, or Forbo 660 adhesive.

**3.2 SEAMING:**

**3.2.1 Conventional Fit Seams:**

All Marmoleum sheet products should be installed utilizing conventional fit seams.

**3.2.2 Welding for Monolithic or Seamless Flooring Installation:**

Forbo’s preferred seaming method for Marmoleum in surgical or procedure areas and those areas required by code is using Forbo Marmoweld ETU. Marmoweld ETU is a color-matched paste weld used to complete the installation of Forbo Marmoleum in place of heat welding.

**3.2.3 Optional Welding Method:**

Heat weld with Forbo Marmoweld welding rod.

Welding Rod Dimensions:

- 4.0 mm
- 164 linear ft per spool

**3.3 Installation Guidelines:**

Forbo does NOT recommend the application of adhesive tape on Marmoleum. Adhesive tape may cause damage to the factory coating of resilient flooring products. When using floor protection materials, tape the seams of the floor protection together and secure the floor protection by weighing down in corners and against walls. DO NOT secure floor protection materials by taping them directly to the surface of resilient floor coverings.

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.

