

MARMOLEUM® COMPOSITION TILE (MCT) TECHNICAL DATA

1. PRODUCT NAME & MANUFACTURER

1.1 Product:

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

1.2 Manufacturer:

Forbo Flooring Systems
 Humboldt Industrial Park
 Hazleton, PA 18202
www.forboflooringna.com
 Phone: +800 842 7839
 +570 459 0771
 Fax: +570 450 0258



1.3 Product Description:

Construction: Marmoleum® Composition Tile (MCT) is a homogeneous floor covering made from natural ingredients including linseed 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 ----- Approx. 13.11" x 13.11" (33.3 cm x 33.3 cm)
 Gauge----- 0.080" (2.0 mm)
 Backing ----- Polyester
 Packaging----- 45 tiles (53.82 feet², 5 meters²)

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 CHPS 01350 requirements for VOC emissions and indoor air quality.
 Contributes to the following LEED® v4 credits:
Materials & Resources
 Credit 4, Option 1: See Forbo's LEED v4 sheet for additional information.
 Credit 4, Option 2: Recycled Content (60% Pre-Consumer)
 Prerequisite 2: 100% Recyclable Packaging
Indoor Environmental Quality
 Credit 2: Low-Emitting Materials (www.chps.net)
 Credit 2: Low-Emitting Materials (Adhesives comply with SCAQMD Rule #1168)

2.3 Static Load Limit:

1,500 pounds per square inch when tested in accordance with ASTM F 970-00, 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 bacteriostatic effect. Independent testing has shown that a sterile zone around the material inhibits the growth of organisms such as staphylococcus aureas (Staph Infection), Clostridium Difficile (C. difficile) and Carbapenem-Resistant Enterobacteriaceae (CRE).

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 Dimensional Stability:

Due to the polyester back, providing a strong durable foundation, the product is dimensionally stable in all directions when properly installed. It resists cracking, drying, and peeling.

2.10 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.

2.11 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.

2.12 Chemical Resistance: (Exposure Time One Hour)*

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
 Phenol (5%) ----- No Change
 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 ----- No Change
 Mineral Oil, Olive Oil, Vegetable Oil, Animal Fat ----- No Change
 Blood, Urine, Excrement ----- No Change
 Lipstick----- No Change
 Formaldehyde, Hydrogen Peroxide 3% ----- No Change
 Hot Chili Paste, Iodine, Betadine, Hair Dye ----- No Change
 Shoe Polish ----- 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® Composition Tile (MCT) is NOT resistant to prolonged exposure to high alkalis.



3. Adhesive:

Use Forbo T 940, Forbo Sustain 885m, Forbo Sustain 1195 or Forbo Sustain 1299 adhesives.

Use a 1/16" x 1/16" x 1/16" square notch trowel.

Spread Rate: Approximately 125 square feet/gallon.

3.1 Installation Guidelines:

Refer to Forbo Flooring's Installation Guide for complete installation guidelines.

4. WARRANTY

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

5. CARE & CLEANING

After installation is completed, allow a minimum of 5 days for the adhesive to properly bond and cure before conducting wet cleaning procedures. See Forbo Flooring's Floor Care Guide for additional information.