1. PRODUCT NAME & MANUFACTURER

1.1 Product:
Forbo Marmoleum® linoleum sheet 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: Forbo Marmoleum® Cocoa 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 natural jute backing. Cocoa shells are added, providing a new surface texture that is both natural and contemporary in feel. 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)
Gauge ----------------------1/10" (2.5 mm)
Backing --------------------Jute
Width ----------------------79" (2 meters)
Length ---------------------105' (32 meters)
Roll Size -------------------77 yards (64 meters²)

2. PRODUCT PERFORMANCE & TECHNICAL DATA

2.1 Reference Specification:
Meets or exceeds all technical requirements as set forth in ASTM F 2034 Standard Specification for Linoleum Sheet 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® Cocoa contributes to LEED® v4 credits. For additional information, contact Forbo Flooring Systems.

2.3 Flexibility:
Forbo Marmoleum® Cocoa will not crack or break when bent around a 1.4” (3.5mm) diameter cylinder.

2.4 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.

2.5 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.

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

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

2.8 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.

2.9 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.

2.10 Fire Testing:

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 – 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

*Forbo Marmoleum® Cocoa is NOT resistant to prolonged exposure to high alkalis.

3. INSTALLATION

3.1 Adhesive:
Use Forbo L 885, Forbo Sustain 1195, Forbo Sustain 1299, Forbo Sustain 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 Flash Coving (OPTIONAL):
Flash cove up walls to the desired height. Use Forbo L 885, Forbo Sustain 1195, Forbo Sustain 1299, Forbo Sustain 100 or Forbo 660 adhesive.

3.5 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.