

# FORBO MARMOLEUM CINCH LOC SEAL TECHNICAL DATA

## 1. PRODUCT NAME & MANUFACTURER

### 1.1 Product:

Forbo Marmoleum Cinch LOC Seal floating floor covering

### 1.2 Manufacturer:

Forbo Flooring Systems  
Humboldt Industrial Park  
Hazleton, PA 18202

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### 1.3 Product Description:

Construction: Forbo Marmoleum Cinch LOC Seal has a 2.0 mm thick top layer of Marmoleum, which is made from natural ingredients including linseed oil, rosin binders, wood flour, limestone and dry pigments which are mixed and then calendared onto a natural jute backing. The Marmoleum is adhered to a 6.8 mm thick HDF panel with a 1.0 mm thick cork backing. The Marmoleum is coated with Topshield – Forbo’s high-performance factory 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)**

Panel -----11.81" x 35.43" (300 mm x 900 mm)

Square -----11.81" x 11.81" (300 mm x 300 mm)

Thickness -----3/8" (9.8 mm)

Base Material -----HDF Panel Board

Packaging -----Panels: 7 per carton - 20.3 ft<sup>2</sup> (1.89 m<sup>2</sup>)

Squares: 7 per carton - 6.7 ft<sup>2</sup> (0.63 m<sup>2</sup>)

## 2. PRODUCT PERFORMANCE & TECHNICAL DATA

### 2.1 Environmental:

Compliant with CDPH 01350 requirements for VOC emissions and indoor air quality.

The composite wood core material meets both CARB ATCM Phase 2 and US EPA TSCA Title VI.

Forbo Marmoleum Cinch LOC Seal contributes to LEED® v4 credits. For additional information, contact Forbo Flooring Systems.

### 2.2 Static Load Limit:

Residual compression of 0.004" with 250 pounds per square inch when tested in accordance with ASTM F 970-17, Standard Test Method for Static Load Limit.

### 2.3 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.

### 2.4 Castor Resistance:

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

### 2.5 Impact Sound Reduction:

IIC 64 when tested in accordance with ASTM E 492, Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor/Ceiling Assemblies using the Tapping Machine.

### 2.6 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 aureas and Clostridium difficile.

### 2.7 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.

### 2.8 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.

### 2.9 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.

### 2.10 Chemical Resistance:

**(Exposure Time – 1h)\***

Diluted Acids – Nitric, Hydrochloric,  
Acetic, Lactic, Citric ----- No Change  
Isopropyl Alcohol (70%) ----- No Change  
Sodium Hydroxide (5%) ----- No Change  
Ammonia (5%), Acetone ----- No Change  
Soda / 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  
Silver Nitrate, Sulfuric Acid----- Staining/Possible Softening  
Bitumen, Salt Water----- No Change  
Methylene Blue, Shoe Polish, Lipstick ----- No Change  
Gel-Based Hand Sanitizer, Bleach ----- No Change  
Tested in accordance with ASTM F 925, Standard Test Method for Resistance to Chemicals of Resilient Flooring.

\*Forbo Marmoleum Cinch LOC Seal is NOT resistant to prolonged exposure to high alkalis.

### **3. INSTALLATION**

#### **3.1 Installation Guidelines:**

Refer to Forbo's Installation Guidelines for complete installation recommendations.

### **4. WARRANTY**

Limited 25-year residential warranty or a limited 5-year commercial warranty. For complete details, contact Forbo Flooring Systems.

### **5. CARE & CLEANING**

Refer to Forbo's Floor Care Guidelines for complete care recommendations.