

# FORBO SPHERA SD | EC TECHNICAL DATA

## 1. PRODUCT NAME & MANUFACTURER

### 1.1 Product:

Forbo Sphera Element SD | EC homogeneous conductive vinyl sheet 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)

### 1.3 Product Description:

Construction: Forbo Sphera SD | EC is a homogeneous conductive vinyl sheet floorcovering that is made of low emitting, 100% phthalate free materials. It has a uniquely embossed SMART-top surface, which provides a high resistance to chemicals, scratches and stains. Conductive polymer granules are added to the PVC mix to make the conductive chips in the material.

### 1.4 Physical Characteristics:

(dimensions are approximate)

Gauge ----- 0.080" (2.0 mm)  
Width ----- 79" (2 meters)  
Length ----- 88' (26.8 meters)  
Roll Size ----- 64 yards<sup>2</sup> (58.5 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 1913, Standard Specification for Vinyl Sheet Floor Covering without Backing

### 2.2 Environmental:

Compliant with CHPS 01350 requirements for VOC emissions and indoor air quality. Forbo Sphera SD | EC contributes to LEED v4.1 credits. For additional information, contact Forbo Flooring Systems.

### 2.3 Electrical Resistance

Meets the following surface to ground ranges when tested in accordance with ASTM F 150, NFPA 99, and/or EOS/ESD S7.1:

Sphera SD:  $1 \times 10^6 - 10^8$  ohms surface to ground  
Sphera EC:  $5 \times 10^4 - 1 \times 10^6$  ohms surface to ground

### 2.4 Static Load Limit:

Residual compression of 0.001" 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 ISO 4918, Castor Chair Test.

### 2.7 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 – 25; SDC – 150 when tested in accordance with CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development.

### 2.8 Chemical Resistance: (Exposure Time – 1h)

Acetic Acid (5%)	-----	No Effect
Acetone	-----	No Effect
Ammonia (5%)	-----	No Effect
Betadine	-----	No Effect
Bleach	-----	No Effect
Brown or Black Hair Dye	-----	Severe Color Change
Brown or Black Shoe Polish	-----	Moderate Color Change
Gasoline	-----	No Effect
Gel Hand Sanitizer	-----	No Effect
Hot Chile Paste	-----	Slight Color Change
Hydrochloric Acid (5%)	-----	No Effect
Iodine	-----	No Effect
Isopropyl Alcohol (70%)	-----	No Effect
Kerosene	-----	No Effect
Methylene Blue	-----	Slight Color Change
Mineral Oil	-----	No Effect
Olive Oil	-----	Slight Surface and Color Change
Phenol (5%)	-----	No Effect
Sodium Hydroxide (5%)	-----	No Effect
Sulfuric Acid	-----	Slight Color Change

Tested in accordance with ASTM F 925, Standard Test Method for Resistance to Chemicals of Resilient Flooring.

### **3. INSTALLATION**

#### **3.1 Adhesive:**

Use Forbo C 930 adhesive for copper grounding strap and Forbo V 1190 adhesive for everything else.

#### **3.2 Heat Welding:**

Seams must be heat welded. Use only Forbo Sphera welding rod.

Welding rod dimensions: 4 mm; 165 linear feet per spool.

#### **3.3 Flash Coving (OPTIONAL):**

Flash cove up walls to the desired height. Use Forbo C 930 and Forbo V 1190 adhesive.

#### **3.4 Installation Guidelines:**

Forbo does NOT recommend the application of adhesive tape on Sphera. 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 15-year warranty. For complete details, contact Forbo Flooring Systems.

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

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