

# 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  
Humboldt Industrial Park  
Hazleton, PA 18202

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### 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 ----- 82' (25 meters)

Roll Size ----- 60 yards<sup>2</sup> (50 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 credits. For additional information, contact Forbo Flooring Systems.

### 2.3 Electrical Resistance

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

Sphera SD:  $1 \times 10^6 - 10^9$  ohms surface to ground

Sphera EC:  $5 \times 10^4 - 10^6$  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 EN 425, 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 – 60; SDC – 180 when tested in accordance to CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development.

### 2.8 Chemical Resistance:

**(Exposure Time – 1h)**

Acetic, Hydrochloric Acid (5%) ----- No Effect

Isopropyl Alcohol ----- No Effect

Sodium Hydroxide (5%)----- No Effect

Sulfuric Acid ----- No Effect

Ammonia (5%), Phenol (5%)----- No Effect

Bleach, Acetone ----- No Effect

Gasoline, Kerosene ----- No Effect

Mineral Oil, Olive Oil ----- No Effect

Hot Chili Paste, Shoe Polish ----- No Effect

Iodine, Hair Dye ----- Slight Change

Betadine, Methylene Blue ----- No Effect

Gel Hand Sanitizer ----- No Effect

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

## 3. INSTALLATION

### 3.1 Adhesive:

Use Forbo Eurocol 641 Eurostar Special EL adhesive.

### 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 Eurocol 641 Eurostar Special EL adhesive.

### 3.4 Installation Guidelines:

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.