1. PRODUCT NAME / MANUFACTURER

1.1 Product:
ColoRex® SD/EC conductive/static dissipative vinyl 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: ColoRex® SD/EC is a homogeneous product sliced from a pressed vinyl block to assure a highly flexible tile of dense construction. ColoRex® SD/EC is dimensionally stable, extremely hard wearing and has a completely non-directional pattern.

1.4 Physical Characteristics: (dimensions are approximate)
Size ------------------ 24.2" x 24.2" (61.5 cm x 61.5 cm)
Gauge --------------- 0.080" (2.0 mm)
Packaging---------- 14 tiles (56.94 feet+two:superior, 5.29 meters+two:superior)

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

2.1 Reference Specification:
Meets or exceeds all technical requirements as set forth in ASTM F 1700, Standard Specification for Solid Vinyl Floor Tile.
Class 1, Type A

2.2 Environmental:
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 (36% 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 Electrical Resistance:
ColoRex® SD/EC meets the following surface to ground ranges when tested in accordance to ASTM F 150, NFPA 99, and/or EOS/ESD S7.1
ColoRex® SD: 1 x 10^6 – 10^8 ohms surface to ground
ColoRex® EC: 5 x 10^4 – 1 x 10^6 ohms surface to ground

2.4 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.

2.5 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.

2.8 Chemical Resistance: (Exposure Time: One Hour)*
- Sulfuric Acid (Concentrate) 95% No Effect
- Sulfuric Acid (77%) No Effect
- Sulfuric Acid (5%) No Effect
- Nitric Acid (Concentrate) Very Slight Surface Attack
- Nitric Acid (5%) No Effect
- Hydrochloric Acid (Concentrate) No Effect
- Hydrochloric Acid (5%) Very Slight Dulling
- Acetic Acid (5% or Concentrate) No Effect
- Sodium Hydroxide (50%) No Effect
- Ammonium Hydroxide (28%) No Effect
- Methyl, Ethyl, & Butyl Alcohol No Effect
- Phenol, Cresol Very Slight Surface Attack
- Benzene, Xylene, Trichlorethlene No Effect
- Gasoline, Mineral Oil, Vegetable Oil No Effect
- Chloroform, Carbon Tetrachloride No Effect
- Methyl Ethyl Ketone Slight Surface Dulling
- Acetone, Amyl Acetate, Ethyl Acetate No Effect
- Silver Nitrate (40%) Slight Brown Stain
- Ethyl Ether No Effect
- Formaldehyde (40%) Slight Brown Stain
- Iodine Yellow Stain

Tested in accordance with ASTM F 925, Standard Test Method for Resistance to Chemicals of Resilient Flooring.
*Most stains may be removed by light sanding.
3. INSTALLATION

3.1 Site Conditions:
The installation should not begin until the work of all other trades has been completed, especially overhead trades. Areas to receive flooring should be clean, fully enclosed and weathertight with the permanent HVAC must be fully operational, controlled and set at a minimum of 680°F (200°C) for a minimum of seven days prior to, during, and seven days after the installation. The flooring material (including adhesive and welding rod) should be conditioned in the same manner for a minimum of 48 hours prior to the installation. Areas to receive flooring shall be adequately lighted to allow for proper inspection of the substrate, installation and seaming of the flooring, and for final inspection.

3.2 Substrates:
Floors shall be sound, smooth, flat, permanently dry, clean, and free of all foreign materials including, but not limited to, dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue. Wood floors should be double construction with a minimum total thickness of 1 inch. Wood floors must be rigid, free from movement and have at least 18” of well-ventilated air space below. Forbo floor coverings should not be installed over wooden subfloors built on sleepers over on or below grade concrete floors without first making sure that adequate precautions have been taken to ensure the structural integrity of the system, and to prevent moisture migration from the concrete slab. Concrete substrates should be prepared in accordance with the latest version of ASTM F 710, Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring. Concrete shall have a minimum compressive strength of 3,000 psi. Patch and repair minor cracks and other imperfections using only the highest quality patching and leveling compounds in strict accordance to the manufacturer’s recommendations for their use and application. Floor covering should not be installed over expansion joints. Suitable expansion joint covers should be used. It is essential that moisture tests be conducted on all concrete floors regardless of the age or grade level. Conduct calcium chloride tests in accordance with the latest version of ASTM F 1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. Measure the internal relative humidity of the concrete slab in accordance with the latest version of ASTM F 2170, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. One test of each type should be conducted for every 1,000 square feet of flooring (minimum of 3). The tests should be conducted around the perimeter of the room, at columns, and anywhere moisture may be evident. Concrete moisture vapor emissions must not exceed 8.0 lbs. per 1,000 square feet in 24 hours when using Forbo C 930 adhesive. Concrete internal relative humidity must not exceed 85% when using Forbo C 930 adhesive.

3.3 Adhesive:
Use Forbo C 930 conductive adhesive. Use a 1/16” x 1/16” x 1/16” square notch trowel. Spread Rate: Approximately 125 square feet/gallon.

3.4 Heat Welding (OPTIONAL):
For seamless, hygienic watertight installation requirements, use Forbo ColoRex® SD/EC welding rod. Welding rod dimensions: 4 mm; 165 linear feet per spool.

3.5 Flash Coving (OPTIONAL):
Flash cove up walls to the desired height. Use Forbo C 930 adhesive.

3.6 Installation Guidelines:
Refer to Forbo Flooring’s Installation Guide for complete installation guidelines.

4. AVAILABILITY AND COST
Available through authorized Forbo Flooring suppliers throughout North America. Contact Forbo Flooring or an authorized supplier for cost information.

5. WARRANTY
Limited 5-year product warranty. Lifetime conductivity warranty, restrictions apply. For complete details, contact Forbo Flooring.

6. CARE AND 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.

7. SUPPORT SERVICES
Submittal samples for verification and approval are available upon request from Forbo Flooring. Samples shall be submitted in compliance with the requirements of the Contract Documents. Please fax all sample requests to +570 450 0229 or visit our website at www.forboflooringna.com. Accepted and approved samples shall constitute the standard materials that represent materials installed in the project. For current installation and floor care guidelines, guide specifications, and other technical information, visit our website at www.forboflooringna.com.