

Product Data

Section 9 Resilient Flooring Evolving Styles Rubber Tile & Sheet

1. PRODUCT NAME

Evolving Styles™ Rubber Tile & Sheet (Creative Elements™ & Wood Elements™)

2. COMPANY INFORMATION

Flexco Corporation

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Sweet's Catalog: 09650/FLE; Buyline 0254; www.sweets.com

3. PRODCUT DESCRIPTION

3.1 Basic Application and Construction

Flexco Evolving Styles Smooth Tile & Sheet is available two unique designs. Creative Elements consists of 16 tone-on-tone colors, and Wood Elements is comprised of 4 new wood designs. Both Creative Elements and Wood Elements is a smooth surfaced, homogeneous rubber tile & sheet designed for use in high traffic areas due to its rugged durability and safe footing. Flexco Evolving Styles Smooth Tile & Sheet are available in both 0.100" & 1/8" gauge. The natural resilience, exceptional wear resistance, and dimensional stability of Evolving Styles Smooth Tile & Sheet make this flooring ideal for most commercial installations. Its quality rubber composition provides a quiet and extremely comfortable walking surface that reduces leg fatigue. Evolving Styles Smooth Tile & Sheet has excellent resistance to abrasion, impact, scuffs, gouging, cigarette burns and most chemicals. Although rugged and durable, it is flexible for fast and economical installations. A lower maintenance cost is a benefit due to its self-waxing ability during dry buffing, which requires no waxing or stripping. Flexco Evolving Styles Smooth Tile & Sheet has lower outgassing than most vinyl or linoleum flooring. This product is ideal for use in showrooms, shopping malls, municipal and government buildings, transit buses, theaters, convention centers, air terminals, bus terminals, train terminals, shipboard interiors, athletic facilities, classrooms, gym floors, elevators, elevator lobbies and/or stair landings. It is also ideal for use in areas that require resistance to staining by fungi. Flexco Evolving Styles Smooth Tile & Sheet with its smooth surface is recommended in areas with small-wheeled furniture or vehicles such as healthcare facilities, prison facilities, retail stores and schools. Wheeled traffic can roll easily and quietly due to its smooth surface and resilient construction that provide low rolling resistance. This product is also available in the Repel Oil and Grease Resistant compound for installations in commercial kitchens and oil change shops. To compliment the variety of styles, coordinating wall base, stair treads, risers, stringers and accessories are available. Material can be heat welded to produce a seamless Flexco Unitized Installation by using the Flexco Rubber Welding Rods.

3.2 Product Construction

Flexco Evolving Styles Smooth Tile & Sheet is a solid, homogeneous, non-conductive rubber tile manufactured using first quality, virgin polymers and raw materials. Special waxes are used to migrate to the surface to maintain a pleasing surface luster. Its high rubber content provides excellent abrasion resistance, chemical resistance, impact resistance, tear strength and resiliency. The hard, smooth, marbleized surface decreases the marring and scratching one would find in a solid color floor. This resilient, monolithic rubber tile has excellent tensile strength and a high static load rating. Evolving Styles Smooth Tile & Sheet has excellent fungi resistance as tested in accordance with test methods stated in the Technical Data. This product exceeds ADA recommendations for slip resistance. Class A Fire Retardant compound is available.

3.3 Product Types and Dimensions

- Gauge; Tiles & Sheets: 0.100" (2.54mm) & 1/8" (3.175mm)
- Size, Tiles: 12" x 12" (304.8mm x 304.8mm), 18" x 18" (457.2mm x 457.2mm) and 36" x 36" (914.4mm x 914.4mm). Pre-grooved (Beveled) Edges available in 36" x 36" (914.4mm x 914.4mm) only for Heat Welded Unitized Tile Installation (Use the "HW" designation when ordering).
- Size, Sheets: 36" (914.4mm) Wide x 25' (7.62m) Long and 48" (1219.2mm) Wide x 25' (7.62m) Long. Other Sizes Available Upon Special Order Request.
- Available Colors; Sixteen standard Creative Elements™ (CE) colors and four standard Wood Elements™ (WE) colors are available, see website www.flexcofloors.com for the latest color selection.
- Custom Color Tile Matching is available.
- Floorcraft Custom Designs are available; computer-controlled, precision cutting service available for logos, signage or other images incorporated into the flooring layout.

3.4 Rubber Welding Rods

- Rubber Welding Rod Dimensions: 0.0160" (4mm) in diameter and packaged in 400 linear foot rolls.
- Rubber Welding Rod Ordering Calculation: To determine needed amount for 36" x 36" tiles, divide the total square feet of tile by 600. This will give you the number of rolls of Rubber Welding Rod required.

4. TECHNICAL DATA

ASTM F 1344 - Specification for Rubber Floor Tile: Class I, Type A and B; Federal Specification SS-T-312B, Type II

ASTM F 1859 - Specification for Sheet Rubber Flooring Without Backing, Type I

ASTM E 648 (NFPA 253) - Critical Radiant Flux; Class 1, > 1.00 W/cm²

ASTM E 662 (NFPA 258) - Specific Optical Density of Smoke Generated by Solid Materials; Passes, < 450

ASTM E 84 (NFPA 255) - Surface Burning Characteristics, Flamespread; Standard formula is Class B (26 – 75), Class A formula is Class A (0 – 25)

FMVSS 302, Title 49, Part 571 - Flammability of Interior Materials; Passes

MIL-DTL-15562G (Navy) - Dielectric Strength Requirement Only; Passes, > 30,000 volts

ASTM D 3389 - Abrasion Resistance; Passes

ASTM F 925 - Resistance to Chemicals; Passes, List of chemicals available

ASTM D 471 - Water Absorption; Passes, < 0.20%

ASTM D 471 - Oil Absorption; Passes, < 0.20%

ASTM D 2047 - Static Coefficient of Friction (Slip Resistance); >0.6

ASTM F 970 - Static Load Limit; 250 PSI, **Modified ASTM F 970** – Static Load Limit; 1100 PSI, Passes, maximum 0.003" indentation

ASTM F 1515 - Light Stability; Passes, Delta E < 8.0

ASTM E 595 - Outgassing; Excellent, Test results available

ASTM F 137 - Flexibility; Bend around a ¾" mandrel, no breaks or cracks

ASTM G 21 - Determining Resistance of Synthetic Polymeric Materials to Fungi; 0, No growth

ASTM E 492 - Impact Sound Transmission (Impact Insulation Class); 37

ASTM C 423 - Sound Absorption (Noise Reduction Coefficient); 0.05

ASTM E 90 - Airborne Sound Transmission (Sound Transmission Class): 51

ASTM D 2240 - Hardness (Shore A Durometer); Passes, > 85

5. PRODUCT LIMITATIONS

Flexco Evolving Styles Smooth Tile & Sheet must be installed using either the Flexco 16/86 Multi-Performance Tile and Tread Adhesive or the Flexco 77 Solvent Free Epoxy Flooring Adhesive. Flexco 77 Solvent Free Epoxy Flooring Adhesive must be used for installations in areas where the flooring will be subjected to lateral shear stresses and/or rolling loads, in areas subjected to moisture or other liquids, in areas where the substrate or flooring is not maintained within the specified temperature range and on metal and some other non-porous substrates. The product must be installed in accordance with Flexco's recommendations in order for the product warranty to be in effect. Flexco Evolving Styles Smooth Tile & Sheet may be stained if it is allowed to remain in contact with other rubber products that may contain staining ingredients such as tires, casters and walk-off mats. Fading can occur from extensive exposure to heavy direct or glass-filtered sunlight, or unfiltered ultra-violet rays. Ensure any disinfectant, cleaning agent, dye, floor care product, pesticide or other chemicals (solid, liquid, or gas) that may come in contact with the

flooring will not produce permanent discoloration and/or damage to the flooring. If any chemical that may come in contact with the flooring is not on the stain resistance chart, the rubber must be tested prior to installation. Contact Flexco Customer Service for a stain resistance chart and for assistance in conducting stain testing. Flexco Evolving Styles Smooth Tile & Sheet without Repel Oil and Grease Resistant compound is not to be used in commercial kitchens or in areas exposed to animal fats, greases, oils, solvents, strong detergents or where there is excessive moisture. Flexco Evolving Styles Smooth Tile & Sheet must not be used in areas that may be subjected to sharp spikes, cleats, sharp wheels and/or other objects that could damage the flooring. **DO NOT** drag or move objects across the flooring or drop objects onto the flooring that may cause damage to the flooring. Use appropriate floor protection devices. The flooring is not to come in contact with direct heat, such as radiators, hot ovens and/or other heated equipment. Ensure the proper product is used for the service application with regard to type and amount of traffic. Flexco Evolving Styles Smooth Tile & Sheet is for indoor use only with temperatures maintained from 65°F (19°C) and 85°F (30°C). Color selections must be made from actual samples as exact matching of color or shade may vary. In marbled products, the appearance and the degree of mottling will vary. To reduce roll material side shading, Flexco recommends that flooring seams must be installed in reverse order. Follow all local, state, and federal safety standards and practices.

6 INSTALLATION

6.1 General Preparation and Conditioning

Read the literature concerning the product description, product limitations, product installation, adhesive information, product maintenance and warranty before installing the tile. All materials including recommended adhesive are to be delivered to the installation location in its original packaging with labels intact. **DO NOT** stack pallets of material as this will cause damage. If rolls are being used, ensure the rolls are stored vertically if possible. **DO NOT** lean against objects that can cause indentation. If the rolls are to be stored horizontally, ensure the rolls are placed on a smooth, level and dry surface, which supports the entire width of the roll. Store products in a dry area protected from the weather on a smooth, flat, dry surface with temperatures maintained between 65°F (19°C) and 85°F (30°C). Remove all plastic wrapping and strapping from the pallets upon arrival to the installation area and at least 48 hours prior to installation. For proper acclimation, remove the tile from the cartons and stack evenly on a smooth dry surface with each stack no more than 18" high. When stacking tiles prior to and during installation, place the tiles face-to-face and sanded back-to-sanded back to prevent the sanded back of the tiles from being contaminated and to protect the product from damage. The installation area, tile, adhesive and welding rods are to be maintained between 65°F (19°C) and 85°F (30°C) for a minimum of 48 hours prior to installation. These temperature ranges must be maintained throughout the installation phase and thereafter. If temperatures other than Flexco's requirements become an issue, contact the Flexco Technical Service Department prior to installation. **Notice:** Tile should be loose laid in the room or area prior to spreading of adhesive to determine the proper layout to ensure the best overall appearance and to minimize small border cuts. Inspect all material for proper type and color. Conduct the proper moisture emission and pH testing on the substrate. Proceed with the installation only when the conditions are proper and correct. A bond test using the recommended Flexco Adhesive throughout the area approximately 50 feet apart should be performed at least one week prior to the scheduled installation to ensure the surface is suitable. After 72 hours, there should be an unusual amount of force to lift tile from the substrate with adhesive bonding to the tile and the substrate. **Caution:** Close the area to traffic during flooring installation and 48 hours after installation. Install tiles and accessories after other finishing operations, including painting, have been completed. If the back of the tile becomes soiled prior to installation, clean with a clean soft cloth dampened with clean water or denatured alcohol and allow to completely dry. Tile may be installed over radiant heated floors, provided the surface temperature is maintained between 65°F (19°C) and 85°F (30°C). If radiant-heated floors have cooled after installation, a gradual increase in temperature is required to prevent adhesive bond from being adversely affected. Follow all local, state, and federal standards and practices for the proper removal and disposal of flooring, adhesives, or other materials. Follow all local, state, federal, and manufacturer's safety standards for the use of all products and equipment.

6.2 Subfloor/Substrate Inspection and Preparation

6.2.1 General

All subfloors/substrates must be inspected prior to installation. All substrates must be clean, smooth, permanently dry, flat, and structurally sound. The substrate must be free of moisture, dust, sealers, paint, curing compounds, parting agents, residual adhesives, adhesive removers, hardeners, resinous compounds, solvents, wax, oil, grease, asphalt, gypsum compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, any other extraneous coatings,

films, materials and all other foreign matter which might interfere/restrict proper adhesive bonding. **DO NOT** use sweeping compounds, solvents, citrus adhesive removers, or acid etching to clean the substrate. **DO NOT** install flooring over gypsum-based or plaster based leveling or patching compounds. **DO NOT** install new floor covering over old floor covering, as the old floor covering may not be adequately bonded, hide possible structural defects or cause plasticizer migration into the new flooring. In renovation or remodel work, remove all existing adhesive residue so that 100% of the overall area of the original subfloor/substrate is exposed (**Caution:** Some previous manufactured asphaltic “cutback” contained asbestos). Follow The Resilient Floor Covering Institute’s (RFCI) “Recommended Work Practice for Removal of Existing Floor Covering and Adhesive”, and all applicable industry, local, state, and federal standards. Care must be taken to analyze the conditions and correct any problems prior to installation. Follow the manufacturer’s recommendations for any patching or underlayment materials, excluding gypsum based or plaster based levelers or patching compounds.

6.2.2 Concrete Substrates

Concrete substrates on all Grade Levels must be tested in accordance with ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F 2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes to quantitatively determine the amount of moisture vapor emission at least one week prior to the installation. **Caution:** ASTM F 1869 or ASTM F 2170 tests cannot predict long-term moisture conditions of concrete slabs. Moisture testing only indicates moisture conditions at the time the tests are performed. Before conducting ASTM F 1869 or ASTM F 2170 test, the installation area must be maintained between for 65° F (19°C) and 85° F (30°C) or at least 48 hours prior to testing, during testing and thereafter. In addition, the concrete’s temperature range must also be identical to that of the installation area. Conduct three tests for the first 1,000 sq. ft. and one additional test for each 1,000 sq. ft. or fraction thereof per grade level (on, below or above grade). The Vapor Emission Rate shall not exceed 4.0 lbs and Relative Humidity Test shall not exceed 70% when using the Flexco 16/86 Multi-Performance Tile and Tread Adhesive. The Vapor Emission Rate shall not exceed 5.0 lbs and Relative Humidity Test shall not exceed 75% when using the Flexco Spray-Grip Adhesive. The Vapor Emission Rate shall not exceed 5.0 lbs and Relative Humidity Test shall not exceed 75% when using the Flexco 77 Solvent Free Epoxy Adhesive. If the substrate does not meet the above noted requirements, the flooring shall not be installed until the problem has been corrected. **DO NOT** install flooring if there is hydrostatic pressure. Every concrete floor slab on-grade or below grade to receive resilient flooring shall have a permanent, effective moisture vapor retarder installed below the slab. A pH test must be performed to test for excessive alkalinity using a pH pencil or litmus paper and deionized water. A scaly, sandy, or powdery surface is an indication of some form of contaminant, usually excessive alkalis or an alkali-silica residue. A pH reading higher than 9 is an indication of a potential problem and the concrete must be neutralized by rinsing with clear water. Apply clear water with a mop and allow to thoroughly dry. Re-rinse with clear water, allow to thoroughly dry and retest to ensure pH level is within acceptable range of 5 to 9 on the pH scale. Continue to neutralize until the pH level is acceptable. The testing of concrete for alkalinity indicates the degree of alkalinity only at the time the test is conducted, and cannot be used to predict long-term conditions. Moisture and alkali salts in the concrete can cause the following problems after installation: adhesive deterioration, bumps, ridges, bubbles, discoloration, mold, mildew, bacteria growth, efflorescence, tile shifting, tile releasing, tile peaking and/or sheet seam curling. **DO NOT** install over burnished (slick troweled) concrete to avoid adhesive and underlayment patch or self-leveling bonding problems due to the non-porosity of the concrete finish. Corrective measures such as bead blasting (shot blasting) or scarifying must be performed prior to installation. The concrete slab must be of good quality, standard density concrete with low water/cement ratios consistent with placing and finishing requirements, having a maximum slump of 4”, a minimum compressive strength of 3500 PSI, and following the recommendations of ACI Standard 302.1R-96 for class 2 or call 4 floors and the Portland Cement Association’s recommendations for slabs on ground. Joints such as expansion joints, contraction joints, isolation joints, saw cuts, control joints, grooves or other moving joints shall not be filled with patching compound or covered with resilient flooring. Expansion joint covers designed for use with resilient flooring should be used. Any non-moving surface cracks, depressions, and other irregularities shall be filled and smoothed with a high quality grade Portland cement-based, water resistant, non-shrinking, non-staining, mildew resistant, alkali resistant underlayment having a minimum compressive strength of 3500 PSI after 28 days. Some underlayments may fail under excessive weight; an epoxy caulking compound may be required for certain repairs. Mechanically cleaning the substrate by shot-blasting, scarifying and/or sanding shall be performed to achieve a flat, smooth, clean surface to prevent irregularities, roughness or other defects from telegraphing through the new resilient flooring. The surface of the concrete shall be flat to within the equivalent of 3/16” in 10 feet, as described in ACI 117R. The surface shall be

cleaned of all loose material by scraping, brushing, vacuuming and/or other methods immediately before commencing installation of resilient flooring. Follow the proper safety practices during the preparation and installation. Follow the recommendations of the American Concrete Institute (ACI 302.1R, *Guide for Concrete Floor and Slab Construction*; ACI 360.R, *Design of Slabs on Grade*; ACI 223, *Standard Practice for the Use of Shrinkage-Compensating Concrete*); The American Society for Testing and Materials (ASTM F 710, *Standard Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring*), and the American National Standards Institute (ANSI A157.1, *Recommended Practice for Concrete Floor and Slab Construction*) for the preparation of concrete to receive resilient flooring.

6.2.3 Wood Subfloors

Wood subfloors should be of double layer construction with a minimum thickness of 1". Crawl spaces underneath wood subfloors shall be in compliance with local building code ventilation practices and have clearance of at least 18" of cross-ventilated space between the ground level and joists. Wood joists should be spaced on not more than 16" centers. Place a moisture retarder; having a maximum rating of 1.0 perm, on the top of the ground under the wood subfloor overlapped at least 8". APA, The Engineered Wood Association, Underlayment Grade plywood, minimum 3/8" thick, with a fully sanded face is to be used. Use APA approved exterior grade plywood if finished floors are subjected to moisture. OSB, lauan, maranti, solid-core mahogany, waferboard, particleboard, chipboard, flakeboard, tempered hardboard, glass mesh mortar units or cementitious tile backer boards, sheathing-grade plywood, preservative-treated plywood and/or fire-retardant treated plywood are not recommended as some manufacturers may use resins or other adhesives in the manufacturing of the product that may cause discoloration or staining of the flooring. Wood subfloor movement, flexing or instability will cause the flooring installed to release, buckle or become distorted. Do not proceed with the installation until corrective measures have been made. The warranties, performance, installation and uses are the responsibility of the wood subfloor manufacturer and/or contractor. **DO NOT** use plastic or resin filler to patch cracks. **DO NOT** use cement or rosin coated nails/staples, or solvent-based construction adhesive to adhere the plywood. Installation on a sleeper, a wood subfloor system constructed over the top of concrete, is not recommended. Installation directly over Sturd-I-Floor panels is not recommended. All wood subfloors, single construction plywood floors, single and/or double tongue-and-groove strip floors, and wood plank floors must be prepared to receive resilient flooring in accordance with federal and industry standards. Follow the recommendations of the APA, The Engineered Wood Association, Design/Construction Guide, Residential and Commercial, and ASTM F 1482, Standard Guide to Wood Underlayment Products Available for Use under Resilient Flooring, for the installation and proper construction of the panels to receive resilient flooring. It is the contractor's responsibility to determine if the subfloor is acceptable to receive the flooring (Refer to 6.2.1).

6.2.4 Terrazzo and Ceramic Floors

Terrazzo and ceramic floors to be used as subfloors/substrates are to follow the procedures recommended for concrete in 6.2.2. Ceramic tile must be solidly adhered and all loose tiles must be removed and repaired or replaced. Ensure all glazed, sealed, smooth and/or shiny surfaces are properly sanded and cleaned. Fill all grout lines and other irregularities with a Portland cement-based underlayment with a minimum compressive strength of 3500 PSI. The subfloor must be structurally sound. Inspect and ensure there is an adequate bond of the old flooring to the original substrate. Flexco will not warranty the product if there is a bond failure caused by problems relating to the old flooring (Refer to 6.2.1).

6.2.5 Metal Floors

Metal floors to be used as subfloors/substrates must be thoroughly cleaned of any residue, oil, rust and/or oxidation and properly sanded/grinded to provide a smooth, level, clean substrate to receive the resilient flooring. The flooring must be installed within 12 hours after sanding/grinding to prevent the metal flooring from re-oxidizing. The metal subfloor shall be structurally sound. Deflection of the metal floor can cause a bond failure between the adhesive and the metal substrate. On an extremely smooth, non-porous, metal substrate, a longer "tack up" may be required in order to prevent the adhesive from oozing between the seams. **Caution:** The installation of stair-treads, risers or other flooring materials will not prevent deterioration of metal substrates from occurring.

6.3 Adhesive Information

6.3.1 Flexco 16/86 Multi-Performance Tile and Tread Adhesive

Flexco 16/86 Multi-Performance Tile and Tread Adhesive is a solvent free, high strength, acrylic adhesive for indoor installations over porous and some non-porous substrates on grade, below grade and/or above grade. This adhesive contains antimicrobial protection that protects the dried/applied adhesive from mold, mildew and bacteria that cause odors and product degradation. Use of this adhesive is limited to casual foot traffic in areas where there are no lateral shear stresses or rolling loads, in areas where the temperature is maintained between 65°F (19°C) and 85°F (30°C), and in areas that will not be subjected to moisture or other liquids. **DO NOT** use Flexco 16/86 when installing Repel™ Oil and Grease Resistant compound. The Flexco 77 Solvent Free Epoxy Flooring Adhesive is required on all Repel™ Oil and Grease Resistant Compound installations, metal and some other non-porous substrates and more severe service conditions. The approximate coverage (spread) rate using a 1/16" x 1/16" x 1/16" square notch trowel is 150 square feet per gallon on a smooth substrate. Coverage will vary according to the type of surface, surface texture, spreading angle, and adhesive temperature. Adhesive is available in 1-gallon and 4-gallon pails. Shelf life is one year stored at 70° F (21°C) in an unopened container. Remove wet adhesive with a soft, clean cloth dampened with water or denatured alcohol. Dried adhesive can be removed using a soft, clean cloth dampened with mineral spirits. The adhesive is freeze/thaw stable to 5 cycles at 0° F (18°C); however, it is recommended to protect all adhesive products from freezing. If frozen, **DO NOT** stir until material has completely thawed. Label information is in English and Spanish. Read all MSDS information and follow the proper safety procedures. Flexco 16/86 Multi-Performance Tile and Tread Adhesive calculated VOC's according to California Rule #1168: 0 grams per liter of coating.

6.3.2 Flexco 77 Solvent Free Epoxy Adhesive

Flexco 77 Solvent Free Epoxy Adhesive is a solvent free, non-flammable, high performance epoxy adhesive used for indoor installations over porous and non-porous substrates on grade, below grade and/or above grade. The Flexco 77 Solvent Free Epoxy Adhesive must be used for installations in areas where the flooring will be subjected to lateral shear stresses and/or rolling loads, in areas subjected to moisture or other liquids, in areas where the substrate or flooring is not maintained within the specified temperature range, and on metal and some other non-porous substrates. The Flexco 77 Solvent Free Epoxy Adhesive must be used for all Repel™ Oil and Grease Resistant Compound installations. When used on non-porous substrates, the adhesive must be allowed to "tack up", but not allowed to cure. The approximate coverage (spread) rate using the 1/32" deep x 1/16" wide x 1/32" flat "U" notch trowel is 175 square feet on a smooth substrate. Using the 1/16" x 1/16" x 1/16" flat "V" notch trowel, the approximate coverage (spread) rate is 150 square feet. Coverage will vary according to the type of surface, surface texture, spreading angle and/or adhesive temperature. Adhesive is available in 1-quart and 1-gallon units. Shelf life is one year at 70° F (21°C) in an unopened container. Although the epoxy components are non-freezing, the adhesive must be allowed to stabilize to ambient temperature before mixing. Any adhesive on the surface of the tiles or surrounding area must be removed immediately with a clean cloth dampened with warm soapy water or denatured alcohol. **DO NOT** allow the adhesive to cure on the surface of the tile. **Caution:** A bond failure will occur if the epoxy is not properly mixed. Label information is in English and Spanish. Read all MSDS information and follow the proper safety procedures. Flexco 77 Solvent-Free Epoxy Adhesive Calculated VOC's according to California Rule #1168: Flexco 77 Part A: 1.3 grams per liter of coating. Flexco 77 Part B: 2.4 grams per liter of coating. Flexco 77 Part A & Part B Mixed Calculated VOC's: 1.21 grams per liter of coating.

6.4 Adhesive Application and Product Installation

6.4.1 Evolving Styles™ Tile Installation using Flexco 16/86 Multi-Performance Tile and Tread Adhesive

Read all installation literature before proceeding. **DO NOT** use Flexco 16/86 when installing Repel™ Oil and Grease Resistant compound. Prior to adhesive application, dry lay the flooring to ensure desired aesthetics. When stacking tiles prior to and during installation, place the tiles face-to-face and sanded back-to-sanded back to prevent the sanded back of the tiles from becoming contaminated and to protect the face from damage. Follow safety precautions on the adhesive label and MSDS. Ensure there is adequate ventilation while working with the adhesives. Pour the contents of the container onto the substrate and spread evenly using a 1/16" x 1/16" x 1/16" flat "V" notch trowel, being careful to leave no puddles of adhesive. Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the tile is installed which would result in a bond failure. Allow the adhesive on the porous substrate to "flash off" for approximately 10 minutes before installing the flooring. On non-porous substrates, allow the adhesive to become dry to the touch so that there is very little transfer of adhesive to the finger. (**Note:** A 1/32" x 1/16" x 1/32" square notch trowel may be required on some semi-porous or non-porous substrates). **Caution:**

“Tack up” time, open time, and curing characteristics will vary upon the type of substrate, substrate temperature, ambient temperature, humidity and/or proper conditioning of the adhesive. Allowing the adhesive to remain open too long will result in bond failure. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile. Avoid tracking wet adhesive onto the surface of the tile. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too “wet”. Immediately remove excessive wet adhesive with a soft, clean cloth dampened with warm soapy water or denatured alcohol. Tiles may be laid in a square or diagonal field. As the mottle in each tile has a definite machine direction, the preferred method of installation is to lay the tiles in a parquet pattern. Each tile is laid where the machine direction of the mottle is at a right angle, 90 degrees, to the machine direction of the mottle in each of the tiles placed along each of its four sides. Installing the tiles in this method breaks up the mottling to give a consistent look throughout the installation. As parquet is the preferred method, the tiles may also be installed with the mottle all going in the same direction without losing any functionality of the product. **DO NOT** fit the tiles together forcibly as using excessive pressure to fit the tiles can cause peaking of the seams. During installation, periodically lift a tile to ensure proper adhesive transfer. There should be at least 90% coverage of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. Borders and other specialty cut tiles must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, or other obstacles. Forcing incorrectly sized tiles into smaller areas will cause buckling of the tile. **DO NOT** wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. Slowly roll and cross roll each section of tile laid with a 100-pound 3-section roller within 15 minutes after the tile section has been installed. The rolling time may need to be adjusted to climatic conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual inspection during the rolling process to ensure there has been no shifting of the tiles and that there is no adhesive on the surface of the tile. **DO NOT** wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Slowly roll and cross roll a second time approximately 30 minutes after the initial rolling. There is to be no foot traffic on the floor for at least 48 hours and no wheeled traffic for at least 3 days. Protect flooring against scuffing, scratching, indentations and other damage until released to the end user.

6.4.2 Evolving Styles™ & Repel™ Tile Installation using Flexco 77 Solvent Free Epoxy Adhesive

Read all installation literature before proceeding. Prior to adhesive application, dry lay the flooring to ensure desired aesthetics. When stacking tiles prior to and during installation, place the tiles face-to-face and sanded back-to-sanded back to prevent the sanded back of the tiles from becoming contaminated and to protect the face from damage. Follow safety precautions on the adhesive label and MSDS. Ensure there is adequate ventilation while working with the adhesives. **DO NOT** mix partial units of this adhesive, because the ratio of Part A to Part B is not 1:1. Flexco 77 Solvent Free Epoxy Adhesive is packaged in two separate containers marked Part A (epoxy resin) and Part B (polyamide resin, hardener). Remove the lids and add all of Part A into Part B. Mix the combined parts with the furnished paddle using a rotary motion while at the same time lifting from the bottom. A slow speed, 200 RPM maximum drill, with an attached mixing paddle may also be used. Mix for a minimum of 3 minutes with drill or 5 minutes by hand. After mixing, there must be no streaking of the two parts in the adhesive; it will be consistent cream color. **Caution:** Higher mixing speeds and/or longer mixing time will reduce the open time and can cause premature curing of the adhesive; however, if not mixed long enough, the adhesive will not properly cure. **DO NOT** allow the mixed epoxy adhesive to stand in the container. Immediately after mixing, pour the contents onto the substrate. Immediately spread the adhesive evenly with a 1/32” x 1/16” x 1/32” “U” notch trowel or 1/16” x 1/16” x 1/16” flat “V” notch trowel while being careful to leave no puddles of adhesive. (**Note:** A 1/32” x 1/16” x 1/32” square notch trowel may be required on some semi-porous or non-porous substrates. If the substrate has been shot blasted or a rough textured underlayment has been applied, additional adhesive may have to be purchased to ensure proper adhesive coverage). Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the tile is installed which would result in a bond failure. On porous substrates, allow the adhesive to “flash off” for approximately 15 minutes. On non-porous substrates, allow the adhesive to “tack up” for approximately 30 minutes. **Caution:** “Tack up” time, open time, and curing characteristics will vary upon the type of substrate, temperature of the substrate, ambient temperature, humidity, proper mixing of the adhesive and proper conditioning of the adhesive. Allowing the adhesive to remain open too long will result in bond failure. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile. Avoid tracking wet adhesive onto the surface of the tile. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too “wet”. If the adhesive is bleeding or oozing at the seams, either too

much adhesive is being applied or the adhesive is too “wet”. Immediately remove excessive adhesive with a cloth dampened with water or denatured alcohol before the epoxy cures. **DO NOT** allow the epoxy to cure on the surface of the tile. Tiles may be laid in a square or diagonal field. As the mottle in each tile has a definite machine direction, the preferred method of installation is to lay the tiles in a parquet pattern. Each tile is laid where the machine direction of the mottle is at a right angle, 90 degrees, to the machine direction of the mottle in each of the tiles placed along each of its four sides. Installing the tiles in this method breaks up the mottling to give a consistent look throughout the installation. As parquet is the preferred method, the tiles may also be installed with the mottle all going in the same direction without loosing any functionality of the product. **DO NOT** fit the tiles together forcibly as using excessive pressure to fit the tiles can cause peaking of the seams. During installation, periodically lift a tile to ensure proper adhesive transfer. There should be at least 90% coverage of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. Borders and other specialty cut tiles must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, or other obstacles. Forcing incorrectly sized tiles into smaller areas will cause buckling of the tile. **DO NOT** wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. Slowly roll and cross roll each section of tile laid with a 100-pound 3-section roller within 15 minutes after the tile section has been installed. The rolling time may need to be adjusted to climatic conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual inspection during the rolling process to ensure there has been no shifting of the tiles and that there is no adhesive on the surface of the tile. **DO NOT** wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Slowly roll and cross roll a second time approximately 30 minutes after the initial rolling. There is to be no foot traffic on the floor for at least 48 hours and no wheeled traffic for at least 3 days. Protect flooring against scuffing, scratching, indentations and other damage until released to the end user.

6.4.3 Evolving Styles™ Sheet Installation using Flexco 16/86 Multi-Performance Tile and Tread Adhesive

Read all installation literature before proceeding. **DO NOT** use Flexco 16/86 when installing Repel Oil and Grease Resistant compound. Follow safety precautions on the adhesive label and MSDS. Ensure there is adequate ventilation while working with the adhesives. Unroll the sheet and allow it to condition before fitting and cutting. If more than one roll is used, ensure rolls are of the same roll number sequence. To reduce roll material side shading, Flexco recommends that flooring seams must be installed in reverse order. Allow enough material for doorways, closets, alcoves, flash coving, etc. Allow an extra 3” for trimming or more if necessary for walls that are not square. Dry lay the flooring to ensure desired aesthetics. Seams should be placed in the least conspicuous places and preferably in the least traveled areas. Ensure seams are approximately 6” away from any seams in the underlayment or substrate. Seams may be double cut or underscribed. When double cutting seams, allow an overlap of approximately 1”. Use a straight edge as a guide and cut through both sheets using a sharp utility knife, while holding the knife at a right angle to the sheet to ensure a straight perpendicular cut. Double cut the seams before adhesive application. When underscribing seams, one of the adjoining factory edges must be removed using a straight edge to provide a straight edge for the underscribing tool to follow. Removing the factory edge should be performed prior to adhesive application. **Caution:** Ensure the sheet does not move when double cutting or underscribing the seams and during the application of the adhesive. If the sanded back of the sheet becomes soiled prior to installation, clean with a soft cloth dampened with clean water or denatured alcohol, rinse and allow to thoroughly dry. Fold back the sheet in the machine direction. Pour the adhesive onto the substrate where the sheet is folded back and spread evenly onto the porous substrate using a 1/16” x 1/16” x 1/16” square notch trowel, being careful to leave no puddles of adhesive. Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the sheet is installed, which would result in a bond failure. Allow the adhesive on the porous substrate to “flash off” for approximately 10 minutes before installing the flooring. On non-porous substrates, allow the adhesive to become dry to the touch so that there is very little transfer of adhesive to the finger. (**Note:** A 1/32” x 1/16” x 1/32” square notch trowel may be required on some semi-porous or non-porous substrates). **Caution:** “Tack up” time, open time, and curing characteristics will vary upon the type of substrate, substrate temperature, ambient temperature, humidity and/or proper conditioning of the adhesive. Allowing the adhesive to remain open too long will result in bond failure. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile. Avoid tracking wet adhesive onto the surface of the tile. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too “wet”. Immediately remove excessive wet adhesive with a soft, clean cloth dampened with warm soapy water or denatured alcohol. **DO NOT** fit the sheets together forcibly as using excessive pressure to fit the sheets can cause peaking of the seams. During installation, periodically lift the sheet

to ensure proper adhesive transfer. There should be at least 90% coverage of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. Borders and other specialty cut tiles must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, or other obstacles. Forcing incorrectly sized tiles into smaller areas will cause buckling of the tile. **DO NOT** wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. Slowly roll and cross roll each section of tile laid with a 100-pound 3-section roller within 15 minutes after the tile section has been installed. The rolling time may need to be adjusted to climatic conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual inspection during the rolling process to ensure there has been no shifting of the tiles and that there is no adhesive on the surface of the tile. **DO NOT** wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Slowly roll and cross roll a second time approximately 30 minutes after the initial rolling. There is to be no foot traffic on the floor for at least 48 hours and no wheeled traffic for at least 3 days. Protect flooring against scuffing, scratching, indentations and other damage until released to the end user.

6.4.4 Evolving Styles™ & Repel™ Sheet Installation using Flexco® 77 Solvent Free Epoxy Adhesive

Read all installation literature before proceeding. Follow safety precautions on the adhesive label and MSDS. Ensure there is adequate ventilation while working with the adhesives. Unroll the sheet and allow it to condition before fitting and cutting. If more than one roll is used, ensure rolls are of the same roll number sequence. To reduce roll material side shading, Flexco recommends that flooring seams must be installed in reverse order. Allow enough material for doorways, closets, alcoves, flash coving, etc. Allow an extra 3" for trimming or more if necessary for walls that are not square. Dry lay the flooring to ensure desired aesthetics. Seams should be placed in the least conspicuous places and preferably in the least traveled areas. Ensure seams are approximately 6" away from any seams in the underlayment or substrate. Seams may be double cut or underscribed. When double cutting seams, allow an overlap of approximately 1". Use a straight edge as a guide and cut through both sheets using a sharp utility knife, while holding the knife at a right angle to the sheet to ensure a straight perpendicular cut. Double cut the seams before adhesive application. When underscribing seams, one of the adjoining factory edges must be removed using a straight edge to provide a straight edge for the underscribing tool to follow. Removing the factory edge should be performed prior to adhesive application. **Caution:** Ensure the sheet does not move when double cutting or underscribing the seams and during the application of the adhesive. If the sanded back of the sheet becomes soiled prior to installation, clean with a soft cloth dampened with clean water or denatured alcohol, rinse and allow to thoroughly dry. Fold back the sheet in the machine direction. **DO NOT** mix partial units of this adhesive, because the ratio of Part A to Part B is not 1:1. Flexco 77 Solvent Free Epoxy Adhesive is packaged in two separate containers marked Part A (epoxy resin) and Part B (polyamide resin, hardener). Remove the lids and add all of Part A into Part B. Mix the combined parts with the furnished paddle using a rotary motion while at the same time lifting from the bottom. A slow speed, 200 RPM maximum drill, with an attached mixing paddle may also be used. Mix for a minimum of 3 minutes with drill or 5 minutes by hand. After mixing, there must be no streaking of the two parts in the adhesive; it will be consistent cream color. **Caution:** Higher mixing speeds and/or longer mixing time will reduce the open time and can cause premature curing of the adhesive; however, if not mixed long enough, the adhesive will not properly cure. **DO NOT** allow the mixed epoxy adhesive to stand in the container. Immediately after mixing, pour the contents onto the substrate. Immediately spread the adhesive evenly with a 1/32" x 1/16" x 1/32" "U" notch trowel or 1/16" x 1/16" x 1/16" flat "V" notch trowel while being careful to leave no puddles of adhesive. (**Note:** A 1/32" x 1/16" x 1/32" square notch trowel may be required on some semi-porous or non-porous substrates. If the substrate has been shot blasted or a rough textured underlayment has been applied, additional adhesive may have to be purchased to ensure proper adhesive coverage). Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the tile is installed which would result in a bond failure. On porous substrates, allow the adhesive to "flash off" for approximately 20 minutes. On non-porous substrates, allow the adhesive to "tack up" for approximately 30 minutes. **Caution:** "Tack up" time, open time, and curing characteristics will vary upon the type of substrate, temperature of the substrate, ambient temperature, humidity, proper mixing of the adhesive and proper conditioning of the adhesive. Allowing the adhesive to remain open too long will result in bond failure. **DO NOT** trowel fresh adhesive over previously spread adhesive. The adhesive ridgeline may telegraph through the product. The ridges of the adhesive should be flattened. **DO NOT** drop the sheet into the adhesive. Roll the sheet forward into the adhesive to avoid trapping air. Starting at the center, slowly roll across the width (machine or mottle direction) toward the edges, with a 100-pound 3-section roller staying away approximately 2 inches from the seam area. Then slowly roll along the length of the sheet (machine or mottle direction). Clean the seams of any adhesive. After the first half of the sheet has

been laid and rolled, repeat the procedure for the second half. After properly fitting the seams together, roll the seam with the 100-pound 3-section roller and hand seam roller if necessary to make the seam edges level. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile. Avoid tracking wet adhesive onto the surface of the tile. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too “wet”. Immediately remove excessive adhesive with a cloth dampened with water or denatured alcohol before the epoxy cures. **DO NOT** allow the epoxy to cure on the surface of the tile. **DO NOT** fit the sheets together forcibly as using excessive pressure to fit the sheets can cause peaking of the seams. During installation, periodically lift the sheet to ensure proper adhesive transfer. There should be at least 90% coverage of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. Borders and other specialty cut tiles must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, or other obstacles. Forcing incorrectly sized tiles into smaller areas will cause buckling of the tile. **DO NOT** wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. Slowly roll and cross roll each section of tile laid with a 100-pound 3-section roller within 15 minutes after the tile section has been installed. The rolling time may need to be adjusted to climatic conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual inspection during the rolling process to ensure there has been no shifting of the tiles and that there is no adhesive on the surface of the tile. **DO NOT** wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Slowly roll and cross roll a second time approximately 30 minutes after the initial rolling. There is to be no foot traffic on the floor for at least 48 hours and no wheeled traffic for at least 3 days. Protect flooring against scuffing, scratching, indentations and other damage until released to the end user.

6.5 Flash Cove Procedure

Install field tile prior to flash cove. Allow a minimum of 6” flash up the wall and extending at least 6” on the floor. Install the Flexco #197 Square Resilient Cove Cap at the desired height. Install the Flexco #195 Cove Stick Filler at the wall and floor junction to provide the desired radius. Measure and cut in the flash cove. Bend to desired radius, making sure there is good contact with the cove stick. To make both inside corners and outside butterfly corners, use building felt to create a dry pattern. Cut the flooring to the pattern. Trim it and fit into place. For outside corners, after cutting and grooving your butterfly piece, fit it into place. As an alternative, preformed metal corners may be used. Use a hand groove tool on the seams after the adhesive has cured, prior to welding the two pieces together. Use Flexco 16/86 Multi-Performance Tile and Tread Adhesive for installation on a porous wall surface or the Flexco FlexTape for a non-porous wall surface for installation of flashed-cove pieces. Use either the Flexco 16/86 Multi-Performance Tile and Tread Adhesive or the Flexco 77 Solvent Free Epoxy Adhesive on the floor and allow the adhesive to overflow on the cove strip.

6.6 Unitized Heat Weld Procedure

Flexco Evolving Styles™ Smooth and Repel™ Smooth Tiles are available pre-grooved in 36” x 36” (914.4mm x 914.4mm) sizes; eliminating the need for routing on the job. It may be necessary to hand rout or use an electric grooving machine in some areas depending upon the job condition. **DO NOT** heat weld the seams until the adhesive has cured, approximately twenty-four (24) hours after the installation of the flooring. After installation and prior to heat welding, protect all seams from dirt, topical moisture and cleaning of any kind. **DO NOT** allow the adhesive to bleed at the seam. The Rubber welding rod will not weld to the adhesive. If the installation is to be routed on the job, the preferable method is to use an electric grooving machine with the blade set to cut the groove approximately 66% of the total thickness of the tile (.082”, if the flooring is 1/8” thick). During the grooving process, ensure approximately 50% of material is equally removed from each side of the adjoining pieces of the tile that is being grooved. Practice on a piece of scrap tile to obtain the proper depth. Temperature of the flooring and welding bead prior to and during installation must be between 65° F (19°C) and 85°F (30°C). It may be necessary to hand groove some of the seams using a hand grooving tool with a narrow blade near the walls or other obstacles. While grooving, pre-heat the welding gun as recommended by the manufacturer. After the grooving is completed use a hot air welding gun, insert the Flexco Rubber Welding Rod through the opening of the 4mm welding tip into the center of the routed groove in the flooring. Practice the welding technique by using a piece of scrap tile to determine the temperature setting of the heat gun and welding speed to achieve a successful bond. Ensure the groove and welding bead are clean, dry and free of any contaminant that may prevent a successful bond when heat welded together. Follow the recommended welding procedures provided by the welding gun manufacturer. Begin welding at the wall and move toward the center. You can

see the tile and bead flowing together while welding if the settings are correct. Welding too slowly may char or burn the tile. An excessive welding speed will not allow the bead and tile to reach the proper temperature for a successful bond. Ensure sufficient downward pressure is applied to fill the groove. Work with seams in one direction at a time, cut a “V” groove in installed bead at tile intersections, and then complete the procedure in opposite direction. **DO NOT** Allow traffic until rods have cooled and are trimmed. Allow the welding bead to completely cool and trim the excess bead with a clean, sharp quarter moon spatula knife with an attached clean, trim plate. After one hour, perform a second trim using only the quarter moon spatula knife to create a smooth, level surface. If the heat welded seam is trimmed before it is completely cold, and/or, if the seam is first cut with only the quarter moon spatula knife without trim the trim plate, a concave skive can result. This can allow particulate and liquids into the seam. After trimming, carefully glazing the surface of the heat welded seam with the hot air from the gun may smooth out any imperfections.

7. PRODUCT MAINTENANCE

7.1 General

DO NOT scrub or mop the floor for at least 72 hours after the installation is completed to allow the adhesive and/or heat welds to properly cure. Remove any covering that may have been used to protect the floor. The flooring must be properly cleaned before it is released for normal use. Insufficient cleaning will reduce the life and performance of the flooring. The amount of maintenance required is directly related to the amount and type of traffic and type of particulates deposited on the floor. It is essential that the initial maintenance be performed on the floor to remove any particulates or contaminants left from the installation process and prepare the floor for use. **DO NOT** use treated mops and thoroughly clean new mops before use. **DO NOT** use kerosene, gasoline, naphtha and/or other solvents on rubber flooring. **DO NOT** use varnish, shellac, paste wax and/or other substances that could discolor or damage the flooring.

7.2 Initial Maintenance

When the flooring is brand new, there is a light coating of a silicone mold release agent on the face of the floor from the manufacturing process. This has to be removed with the initial maintenance. Sweep, dust mop and/or vacuum the flooring to remove dirt and other particulates. Use a mild, neutral (ph 7-8) cleaner such as Spartan Chemical’s Damp Mop or Green Solutions All Purpose Cleaner. If a disinfectant is required, use Spartan Chemical’s DMQ Neutral Disinfectant Cleaner or Green Solutions Neutral Disinfectant Cleaner. Follow the manufacturer’s recommendations for dilution and use for a medium duty cleaning. For smaller applications, apply the diluted cleaning solution to the flooring with a soft-bristled desk brush or nylon mop. **DO NOT** flood the floor. Allow the cleaning solution to stand for approximately 10-15 minutes. **DO NOT** allow solution to dry. For small applications, scrub with a soft-bristled deck brush. For large applications, scrub the area with a single disc 175-350 RPM scrubbing machine equipped with a soft-bristled scrubbing brush or 3M 4100 White Super Polish Pad. Ensure brush or pad does not scratch the flooring. Wet vacuum or mop up residue. Rinse with clean, cool water. Remove the rinse water with a wet/dry vacuum and allow flooring to dry thoroughly before exposing to traffic. The use of a highly alkaline, highly acidic or solvent-base cleaners or products will remove color from the flooring or degrade the flooring prematurely. **DO NOT** use sweeping or cleaning agents containing oil or solvents. **DO NOT** allow the solution to work its way beneath the flooring which could result in an adhesive failure. **Caution:** When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic.

7.3 Regular Maintenance

Sweep, dust mop and/or vacuum the flooring to remove dirt and other particulates. Use a mild, neutral (ph 7-8) cleaner such as Spartan Chemical’s Damp Mop or Green Solutions All Purpose Cleaner. If a disinfectant is required, use Spartan Chemical’s DMQ Neutral Disinfectant Cleaner or Green Solutions Neutral Disinfectant Cleaner. Follow the manufacturer’s recommendations for dilution and use for a general or light duty cleaning. For smaller applications, apply the diluted cleaning solution to the flooring with a soft-bristled desk brush or nylon mop. **DO NOT** flood the floor. Allow the cleaning solution to stand for approximately 10-15 minutes. **DO NOT** allow solution to dry. For small applications, scrub with a soft-bristled deck brush. For large applications, scrub the area with a single disc 175-350 RPM scrubbing machine equipped with a soft-bristled scrubbing brush or 3M 4100 White Super Polish Pad. Ensure brush or pad does not scratch the flooring. Wet vacuum or mop up residue. Rinse with clean, cool water. Remove the rinse water with a wet/dry vacuum and allow flooring to dry thoroughly before exposing to traffic.

7.4 Dry Buffing

DO NOT dry buff the floor until it has been cleaned using the process in 7.2 or 7.3. Dry buffing should be performed on routine basis to maintain the floors natural surface luster. Ensure the floor is completely dry. For large installations, dry polish with single disc 175-350 RPM scrubbing machine with a 3M 4100 White Super Polish Pad. **DO NOT** heel the machine or scratch the flooring. For small installations, use a soft clean cloth wrapped around a narrow push broom. Over time with the dry buffing process, the small pores on the surface of the tile will close and the surface will become harder. This is a natural process with Rubber Tiles and as this occurs, the maintenance on the floors will become easier and less frequent.

7.5 Optional Floor Sealer/Finish Application

If a floor sealer/finish is preferred, ensure the floor is completely clean (section 7.2). Once the floor has completely dried, test for proper adhesion by applying sealer/finish product recommended for rubber flooring. There are several that have been tested in conjunction with Flexco flooring and used with success. Spartan Chemical's Green Solutions Floor Seal & Finish is the recommended product, although there are others that can be used. Apply sealer/finish to a small area with a sponge and allow to completely dry. If the finish pulls back and does not level out, repeat step 7.2 until the sealer/finish is firmly bonded. If the sealer/finish does level and is firmly bonded, continue with the application according manufacturer's recommendations. Apply 1-2 light coats of the sealer/finish that meets your traffic and maintenance needs. Each coat of floor sealer/finish must be applied in opposite directions to ensure proper coverage regardless of the flooring profile. Contact your Spartan Chemical Representative or Spartan Chemical (800-537-8990) directly for proper finish recommendations to meet specific traffic and maintenance requirements. **Caution:** Applying sealers/finishes will darken the floorings original color. When applying sealers/finishes always check first for compatibility, bonding and color darkening of the flooring by testing on a scrap piece of flooring to ensure the desired results and appearance is achieved. **Caution:** When floor sealers/finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Flexco will not be held liable for the slip resistance effects of Flexco flooring that has a sealer/finish applied. **DO NOT** allow the solution to dry or work its way beneath the flooring, which will result in an adhesive failure. Sealers/finishes can be broken into two different categories based upon the frequency of the maintenance schedule. A frequent maintenance schedule can be described as "at least twice a week or as often as every day". Spartan Chemical has several product solutions that can be used within this maintenance schedule; High Frontier, Upper Limit's, TriLinc, Trendsetter Sealer/Finish, Pro-Shine, Heavy Duty Wax 16% and Glacier. These Finishes must be burnished (polished until shinny) in order to maintain gloss levels. The burnishing frequency will depend on several factors including but not limited to the following: Type of finish, traffic, equipment, internal/external conditions, type of floor, labor/budget available, and end user expectations. An infrequent maintenance schedule can be described as "once a week to never". Spartan Chemical products designed to be used within this maintenance schedule are: Millennia Bright Dura Gloss Laminate, Sheen 17, White Sun Sunny-Side, iShine, On an' On, Terra Glaze and Green Solutions Floor Seal & Finish. These products are considered Dry-Bright Finishes which dry to a particular gloss and remain that way. Gloss loss with these finishes is due to superficial wear and tear. Burnishing, spray buffing and/or using a finish restorer will restore the gloss to these areas.

7.6 Routine Maintenance for Optional Sealer/Finish Applications

Insufficient cleaning will reduce the wear life and the appearance of the flooring or optional sealers/finishes. The amount of maintenance required is directly related to the amount and type of traffic and type of particulates deposited on the floor. Sweep, dust mop and/or vacuum the flooring to remove dirt and other particulates. Use a mild, neutral (ph 7-8) cleaner such as Spartan Chemical's Damp Mop or Green Solutions All Purpose Cleaner. If a disinfectant is required, use Spartan Chemical's DMQ Neutral Disinfectant Cleaner or Green Solutions Neutral Disinfectant Cleaner. Follow the manufacturer's recommendations for dilution and use for a general or light duty cleaning. For smaller applications, apply the diluted cleaning solution to the flooring with a soft-bristled desk brush (required for textured and raised profiles) or nylon mop (required for smooth profile floors). **DO NOT** flood the floor. Allow the cleaning solution to stand for approximately 10-15 minutes. **DO NOT** allow solution to dry. For small applications, scrub with a soft-bristled deck brush. For large applications, scrub the area with a single disc 175-350 RPM scrubbing machine equipped with a soft-bristled scrubbing brush or 3M 4100 White Super Polish Pad. Ensure brush or pad does not scratch the flooring. Wet vacuum or mop up residue. Rinse with clean, cool water. Remove the rinse water with a wet/dry vacuum and allow flooring to dry thoroughly before exposing to traffic. The use a highly alkaline, highly acidic or solvent-base cleaners or products will remove color from the flooring or degrade the flooring prematurely.

7.7 Existing Floor Sealer/Finish Removal

To remove existing floor finishes/sealers, first the flooring must be properly cleaned by first sweeping or vacuuming to remove dirt and other particulates. Strip with either Spartan Chemical's Rinse Free Stripper or Green Solutions Floor Finish Remover. Follow the manufacturer's recommendations for dilution and use for a medium duty cleaning. For smaller applications, apply the diluted cleaning solution to the flooring with a soft-bristled deck brush or nylon mop. **DO NOT** flood the floor. Allow the cleaning solution to stand for approximately 10-15 minutes. **DO NOT** allow solution to dry. For small applications, scrub with a soft-bristled deck brush. For large applications, scrub the area with a single disc 175-350 RPM scrubbing machine equipped with a soft-bristled scrubbing brush or 3M 4100 White Super Polish Pad Ensure brush or pad does not scratch the flooring. Wet vacuum or mop up residue. Rinse with clean, cool water. Remove the rinse water with a wet/dry vacuum and allow flooring to dry thoroughly before exposing to traffic. Reapply sealer/finish as described in section 7.5.

8. TECHNICAL SERVICES

8.1 Technical Assistance

Technical service information and assistance may be obtained by calling Flexco® Customer Service at 1-800-633-3151 or by visiting www.flexcofloors.com.

8.2 Samples

Samples may be obtained by calling Flexco® Customer Service at 1-800-633-3151 or by visiting www.flexcofloors.com.

9. AVAILABILITY AND COST

Products are available through Flexco® distributors. Contact Flexco® Customer Service at 1-800-633-3151 or visit www.flexcofloors.com for a list of distributors.

10. LIMITED WARRANTY

Flexco Corporation manufactures and markets its floor products under the trade name Flexco. Flexco Evolving Styles Smooth Tile & Sheet is warranted for a period of one (1) year from date of installation to be free of defects in material and workmanship. Flexco has a ten (10) year Limited Wear Warranty on the Evolving Styles Smooth Tile & Sheet; if installed, maintained and used strictly in accordance with Flexco's written instructions and installed with the recommended Flexco adhesive. Instructions may be obtained from a Flexco distributor or by writing Flexco, Attention: Customer Service Manager, 1401 East 6th Street, Tuscumbia, Alabama, 35674. Notice of any defect must be made in writing to Flexco within thirty (30) days after buyer learns of the defect. No merchandise is to be returned prior to Flexco's inspection and written approval. Buyer's sole and exclusive remedy against Flexco and Dealer for claims arising hereunder for any and all losses and damages resulting from any cause shall be a pro rata credit based on the period remaining in this Limited Warranty toward the purchase of new Flexco Evolving Styles Smooth Tile or Sheet. Replacement credit shall be equal to the proportion of Limited Warranty time remaining multiplied by the current price of Flexco Evolving Styles Smooth Tile & Sheet. In no event shall Flexco be liable for incidental or consequential damages, even if some other provision of this Limited Warranty is unenforceable. Buyer waives all other claims and remedies of any nature. Flexco Evolving Styles Smooth Tile or Sheet is not designed for use in or near commercial kitchens (unless it is Repel formulation) or for outdoor use. Flexco shall have no liability whatsoever to Buyer in the event the goods become defective if such defect is caused in whole or part by cuts, tears, vandalism, fire, willful destruction, damage from high heels, spiked footwear, improper installation, improper maintenance, subfloor and/or substrate irregularities, accidents, natural causes and/or acts of God. Flexco will not be liable for labor costs or lost profits resulting from the use of or inability to use the product. Flexco will not be liable for labor costs for material that is installed with obvious defects. Products designated as "seconds", "mill run", "non-conforming", not being of first quality, are sold as-is and Flexco makes no warranties whatsoever, expressed or implied, with respect thereto, including warranties of merchantability or fitness for a particular use. By retaining Flexco's merchandise for more than five (5) days after receipt of such merchandise, Buyer agrees that it accepts the terms of this Limited Warranty and that there are no warranties or rights beyond those contained herein. All claims must be made in writing and sent to Flexco in the appropriate manner. All claims for surface defects or variations in color or pattern must be delivered to Flexco in writing before the product is installed. Flexco will not accept the return of any product without prior written approval of the Flexco Claims Department.