




Specification Data -- RESILIENT TILE FLOORING 09 65 19

Burke Flooring® Luxury Vinyl Tile Installation Instructions

1. Product Description

Burke Flooring Luxury Vinyl Tile offers you an unparalleled selection of some of the most beautiful and practical flooring available anywhere. They combine the two most desirable attributes a floor can exhibit; beauty and durability. Burke LVT gives you a floor that’s incredibly long lasting and attractive. But there is one more attribute of Burke Flooring LVT that appeals to most customers: cost. You can install LVT at a surprising savings compared to similar premium resilient vinyl tiles. Beauty, durability and economy; it’s a combination that makes specifiers and their customers look smart.

<p>The Green Story</p>  <p>Burke Luxury Vinyl is 67% post consumer recycled pvc. Vinyl products that were previously discarded in a landfill are now reclaimed in a proprietary process. LEED points are available for these products.</p>	<p>The Clean Story</p> <p>Burke Luxury Vinyl Flooring is manufactured to include new germ killing technology designed to make your facility safer from bacteria such as staph and E.coli, viruses like rhinovirus and molds.</p> <p>NANO-SILVER, extremely small particles of metallic silver, is added to Burke LVT giving a durable anti-microbial action. Silver particles are microscopic, making them invisible to the human eye.</p> <p>It just quietly goes about making businesses and environments safer places to be.</p>
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2. Installation

Jobsite Conditions:

Areas to receive flooring must be clean, fully enclosed, well lighted, and weather tight. The permanent HVAC system set at a minimum of 65 degrees F for 48 hours prior to, during and after the installation. A minimum temperature of 55 degrees F should be maintained thereafter. The installation should not begin until the work of all other trades has been completed, especially overhead trades.

Material Storage and Handling:

Material should be delivered to the job site in its original unopened package with all labels intact. Check that all material is the same batch and lot number. All flooring material and adhesive should be allowed to acclimate to room condition a minimum of 24 hours prior to beginning the installation. Inspect all material for visual defects prior to installation.

Sub-Floors:

No floor covering is better than the sub-floor over which it is installed. The finished appearance and performance of the floor covering will be determined and affected, in part, by the condition of the sub-floor. It is essential that all sub-floors be rigid, finished smooth, flat, level, permanently dry, clean and free of all foreign materials such as dust, paint, grease, oils, solvents, curing and parting compounds, sealers, and old adhesives residue. The responsibility for determining the suitability of the sub-floor rests solely with the flooring installer.

Wood Sub-Floors:

Wood floors should be double construction with a minimum thickness of 1". The floor must be rigid, free from movement and have a least 18" of well-ventilated air space below. Particle board/chip board, tempered hardboard and gypsum-based are not suitable to install over.

Concrete Floors:

Concrete shall have a minimum compressive of 3500psi. Imperfections such as chips, spalls and cracks should be repaired using only Portland base patching and leveling compound. Do not use gypsum based products.

Concrete should be free of all paint, old adhesives, curing, hardening and parting compounds. Use a mechanical method, such as shot blasting or scarifying, to remove surface contaminants.

Expansion joints in the concrete are designed to allow for the expansion and contraction of the concrete. Flooring products should not be installed over expansion joints. Burke Flooring recommends the use of joint covers designed for use with resilient flooring be used. The concrete must be cured, dry and maintained at a constant temperature prior to the installation of floor coverings.

Patching and Leveling Compounds:

Do not install Burke Flooring floors over gypsum-based patching or leveling compounds.

Burke Flooring recommends only the use of Portland base patching and leveling compounds.

Moisture Test:

It is essential that moisture tests be conducted on all concrete floors regardless of the age or grade level. The test must be calcium chloride moisture emission test. Tests must be conducted in accordance with ASTM- F1869. The moisture emission results must not exceed 3.0 lbs. Per 1,000 sq. ft. per 24 hours. If the moisture emission exceeds 3 lbs, the installation should not proceed until the problem has been corrected.

PH Test:

It is essential pH tests are taken on all concrete slabs regardless of age or grade level. If the pH reading is greater than 9, the concrete must be neutralized prior to beginning the installation.

Note: Excessive moisture emissions and pH are the primary cause of flooring failures. It is absolutely essential that these items be in compliance prior to beginning the installation.

3. Adhesives

Use adhesive designed for the permanent installation of vinyl plank and vinyl backed tile. Adhesive must be plasticizer resistant and develop strong bond strength to limit dimensional movement of the flooring material.

Porous Substrates:

Use Burke Flooring adhesive BR-711. Use 1/16 X 1/16X 1/16 square notched trowel. Install flooring material into adhesive just as it begins to skim over. It is important to watch this carefully and avoid installing tile after the adhesive has set. The point at which the adhesive is ready to receive tile varies considerably and is affected by temperature and humidity. The hotter / drier your environment is, the faster the adhesive will be ready to receive tile.

Periodically check to confirm proper adhesive transfer to back. Roll flooring material with a minimum 100-pound roller immediately after placed into adhesive. Restrict foot traffic for 24 hours and rolling loads for 72 hours to assure proper setting of adhesive and prevent indentations.

NOTE: Non-Porous substrates -- Use Burke 721 Two Part Epoxy Adhesive

BR 721™ Epoxy – Solvent Free. This is the preferred adhesive where solid strength but a flexible bond is required for heavy duty foot and vehicle traffic. Above, on or below grade concrete or wood sub-floors, this adhesive has high water resistance to surface flooding. It can be used on porous or non-porous surfaces.

Two Part Adhesive Mixing Instructions:

Two Part Adhesive – The packaged units of epoxy (BR 721) are marked A or B. The A & B unit should be mixed together thoroughly and with a rotary motion while at the same time lifting from the bottom. **Use an electric drill and paddle for thorough mixing.** After mixing, the color of the adhesive must be uniform (i.e., no streaking). *Never mix Parts A and B on the sub-floor itself. Once the adhesive is mixed it must be removed from the container to slow its curing time – pot life is less than 10 minutes for BR 721.*

Temperature – The sub-floor temperature affects the curing rate of two part adhesives. Curing will take place between 59°F (14°C) and 85°F (29°C). The ideal temperature for the adhesive cure is 72°F (24°C). This will normally take 8-12 hours. At 59°F (14°C) cure will take approximately three times longer for epoxy and about twice as long with urethane. At 85°F (29°C) cure will take approximately half the time. The chart below shows approximate temperature and appropriate cure times of epoxy and urethane adhesives:

ACTUAL FLOOR TEMPERATURE

BR 721

MINIMUM REQUIRED CURE TIME	59°F (14°C)	72°F (24°C)	85°F (29°C)
Heavy Rolling Stock	4 Days	4 Days	3 Days
Foot Traffic	12 Hrs.	7 Hrs.	6 Hrs.

Pour the entire mixed contents out of the can immediately onto the sub-floor in the areas of application. Trowel the adhesive with a 1/16" x 1/16" x 1/16" square notched trowel.

Yields: The average *adhesive yield* from a gallon unit of BR 721 will be approximately 100 square feet, depending on the smoothness of the sub-floor. Rough sub-floor surfaces and improper or worn trowel notching will affect the adhesive spread rate. Do not apply adhesive to the tile.

Two part adhesive average working life is one hour at a temperature of 72°F (24°C). Tiles may be laid shortly after spreading as no open time is needed. However, if the spread adhesive is allowed to remain open 15-20 minutes the adhesive will develop more initial tack and will help reduce tile slipping.

4. Technical Services:

Complete technical services, catalogs and samples are available from the manufacturer and Burke Flooring representatives. For information and/or assistance, contact your Burke Flooring Representative or a local Burke Flooring distributor. For Technical Assistance contact 800-669-7010.