

## Vinyl Flooring (PRT/CRT) Performance Properties

| PROPERTY  | PREMIUM RESILIENT TILE (PRT)   | COMMERCIAL RESILIENT TILE (CRT)  |
|---|--|--|
| <b>TEST DATA</b>  |  |  |
| ASTM F 1700   | Conforms   | Conforms   |
| NFPA Life Safety Code 101   | Class I Interior Floor Finish  | Class I Interior Floor Finish  |
| Flame Spread (ASTM E 84 or NFPA 255)  | <75  | <75  |
| Smoke Density Test (ASTM E 662)   | < 450  | < 450  |
| Critical Radiant Flux (ASTM E 648 or NFPA 253)  | >1.08 W/cm <sup>2</sup> (Class I)  | >1.08 W/cm <sup>2</sup> (Class I)  |
| Slip Resistance (ASTM D 2047 or NFSI 101-A)   | 0.5 SCOF (Static Coefficient of Friction)  | 0.5 SCOF (Static Coefficient of Friction)  |
| Maximum Static Load   | 2,500 psi  | 1,500 psi  |
| <b>CONSTRUCTION</b>   |  |  |
| Composition   | High grade resin, thermoplastic binders, fillers, and pigments   | High grade resin, thermoplastic binders, fillers, and pigments   |
| Gauge   | 1/8"   | .080"  |
| Nominal Sizes   | 12" x 12" Micro-Squared™ tiles; plus or minus 0.002" square*<br>24" x 24" or 36" x 36" squared edge or pre-grooved tiles<br>(by special order) Custom sizes (by special order) | 12" x 12" Micro-Squared™ tiles; plus or minus 0.002" square*<br>24" x 24" or 36" x 36" squared edge or pre-grooved tiles<br>(by special order) Custom sizes (by special order) |
| <b>INSTALLATION</b>   |  |  |
| Adhesive & Spread Rate  | #8445 Water-Based Synthetic Resin Adhesive; Covers 140 square feet (used for above grade) #100 Epoxy Adhesive:**<br>Covers 200 square feet (used for on or below grade)        | #8445 Water-Based Synthetic Resin Adhesive; Covers 140 square feet (used for above grade) #100 Epoxy Adhesive:**<br>Covers 200 square feet (used for on or below grade)        |
| Trowel Size***  | Type one: 1/16" x 1/16" Square Notch with 1/16" Flats<br>Type Two: 1/16" x 1/16" Half Circular Notch with 1/32" Flats  | Type one: 1/16" x 1/16" Square Notch with 1/16" Flats<br>Type Two: 1/16" x 1/16" Half Circular Notch with 1/32" Flats  |
| <b>WARRANTY</b>   |  |  |
| Free from defects in workmanship and materials – Five Years • The use of any other adhesive will void VPI's warranty. |  |  |

\* For applications consisting of multiple color patterns (e.g. checkered), all color patterns must be ordered simultaneously to ensure the same lot related tolerances.

\*\* VPI #100 Epoxy for vinyl flooring should be used with seam-welded installations of VPI vinyl flooring and in areas that will be subjected to very severe or heavy traffic.

\*\*\* Trowel size depends on adhesive and subfloor porosity. Please refer to VPI's installation instructions for proper trowel size selection.

## Vinyl Flooring (PRT/CRT) Specifications

| GENERAL   | EXECUTION cont'd  |
|---|---|
| <b>REFERENCES</b>   | <b>EXAMINATION cont'd</b>   |
| <ul style="list-style-type: none"> <li>A. ASTM E-84: Surface Burning Characteristics of Building Materials.</li> <li>B. ASTM E-648: Critical Radiant Flux of Floor Covering Systems.</li> <li>C. ASTM E-662: Smoke Generation Characteristics of Solid Materials.</li> <li>D. ASTM F 1700.</li> <li>E. NFPA 101: Life Safety Code.</li> </ul>   | <ul style="list-style-type: none"> <li>C. Ensure floor surfaces are smooth and flat with maximum variation of 1/8 inch in 10 feet.</li> <li>D. Ensure floor surfaces are clean and free from dust, paint, oil, grease, curing agents, parting compounds, surface hardeners, sealers, solvents, old adhesives, and other extraneous substances.</li> <li>E. Beginning of installation means acceptance of surfaces and conditions.</li> </ul>  |
| <b>WARRANTY</b>   | <b>INSTALLATION</b>   |
| <ul style="list-style-type: none"> <li>A. Provide manufacturer's warranty under provisions of Section [01700.] [01740.]</li> <li>B. Warranty: Include five year warranty that products are free from defects in materials and workmanship.</li> </ul>   | <ul style="list-style-type: none"> <li>A. Install flooring in accordance with manufacturer's printed instructions.</li> <li>B. Use adhesive recommended by floor tile manufacturer.</li> <li>C. Clean substrate. Spread adhesive evenly in quantity recommended by flooring material manufacturer to ensure adhesion over entire area of installation. Use recommended notched trowel.</li> <li>D. Set flooring in place, roll and cross roll with 150 lb. Sectional roller while adhesive is still wet to ensure full adhesion.</li> <li>E. Lay flooring with joints and seams parallel to building lines to produce [symmetrical tile pattern.][minimum number of seams.]</li> <li>F. Terminate resilient flooring at center line of door openings where adjacent floor finish is dissimilar.</li> <li>G. Install reducer strips at unprotected or exposed edges where flooring terminates.</li> <li>H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.</li> <li>I. Continue flooring through areas to receive moveable type partitions without interrupting floor pattern.<br/><b>Retain paragraphs J through L when seamless flooring is required. Delete paragraph J when pre-grooved tiles are used for seamless flooring.</b></li> <li>J. Rout out seams.</li> <li>K. Heat weld using bead available from manufacturer.</li> <li>L. Install with VPI No. 100 Epoxy Adhesive.</li> </ul> |
| <b>PRODUCTS</b>   | <b>PROTECTION</b>   |
| <p><b>ACCEPTABLE MANUFACTURERS</b></p> <ul style="list-style-type: none"> <li>A. VPI, LLC (VPI), PO Box 451, Sheboygan, WI 53082-0451</li> </ul> <p><b>FLOOR COVERING MATERIALS</b></p> <ul style="list-style-type: none"> <li>A. Vinyl Resilient Floor Tile: ASTM F 1700: VPI Premium Resilient Tile; [12 x 12, 24 x 24, 36 x 36 inch] x 1/8 inch thick; color and pattern [selected.] VPI Commercial Resilient Tile; [12 x 12, 24 x 24, 36 x 36 inch] x .080 inch thick; color and pattern [selected.]<br/><b>Pricing for vinyl flooring is determined by gauge and color. Specify gauge and color.</b></li> </ul> <p><b>MANUFACTURING TOLERANCES</b></p> <ul style="list-style-type: none"> <li>A. Micro-Squared™ 12 x 12 inch tile to plus or minus 0.002 inch; cut vertical edges perpendicular to tile surface.</li> <li>B. Precision control gauge to assure smooth surface with no high edges.</li> </ul> <p><b>ADHESIVES</b></p> <ul style="list-style-type: none"> <li>A. Flooring Adhesives: [VPI No. 8445 Water-Based Synthetic Resin Adhesive] [VPI No. 100 Epoxy Adhesive] as required for specific use.</li> </ul> | <b>CLEANING</b>   |
| <b>EXECUTION</b>  | <ul style="list-style-type: none"> <li>A. Prohibit traffic on finished floor for 48 hours after installation.</li> </ul>  |
| <b>EXAMINATION</b>  | <ul style="list-style-type: none"> <li>A. Remove excess adhesive from floor, base, and wall surfaces without damage, while adhesive is still wet.</li> <li>B. Clean floor and base surfaces in accordance with manufacturer's instructions.</li> </ul>  |
| <p><b>Consult with manufacturer for precautions when substrate is lightweight aggregate concrete, magnesite flooring, or for below-grade conditions.</b></p> <ul style="list-style-type: none"> <li>A. Verify that concrete subfloors on- or below-grade are installed over a suitable moisture retardant membrane.</li> <li>B. Ensure concrete floors are dry and exhibit less than 9.0 alkalinity, adequate carbonization and no dusting. Maximum moisture emission: Five lbs./1,000 sq. ft./24 hours.<br/><b>Moisture test kits are available from VPI; moisture tests are recommended.</b></li> </ul>   |   |