Static Control and PRT/CRT Vinyl Flooring Chemical Resistance Properties (per) ASTM F 925 Methodology

Chemical	1 Minute	24 Hour	Chemical	1 Minute	24 Hour
Acetic Acid Conc.	0	SA2	Hydrogen Peroxide 30%	0	SD1
Acetone	SA1	SA3	Hydrogen Chloride	0	SA1
Household Ammonia	0	0	Iodine	CC1	CC3
Ammonium Hydroxide 20%	0	0	Isopropyl Alcohol	0	SD3
Amyl Acetate	0	SA3	Kerosene	0	SA1
Acetonitrile	SD1	SA3	Methyl Alcohol	0	0
Benzene	0	SA2	Methyl Ether Ketone	SA1	SA3
Betadine	0	CC3	Methylene Chloride	SA3	SA3
Butyl Alcohol	0	SA2	Methyl -2-pyrrolidone	SA1	SA3
Butyl Methyl Ether	0	SA1	Mineral Oil	0	0
Buffer, phenol red	CC2	CC3	Nitric Acid 5%	0	SA2
Carbon Tetrachloride	0	SA1	Nitric Acid Conc.	0	SD3
Chloroform	0	SA2	Olive Oil	0	0
Creosote	CC2	CC3	Perchloroethylene	SD3	SA3
Cresol	0	SA3	Phenol	0	SA2
Dichlormethane	0	SA1	Silver Nitrate 5%	0	CC3
Dimethyl Sulfoxide	SA3	SA3	Sodium Hydroxide 5%	0	0
Dimethyl Formamide	SA1	SA3	Sodium Hydroxide 50%	0	0
Ether	SD1	SD3	Sodium Metasilicate	0	0
Ethyl Acetate	0	SA3	Sulfuric Acid 5%	0	0
Ethyl Alcohol	0	0	Sulfuric Acid 77%	0	CC2
Ethyl Ether	0	SA1	Sulfuric Acid Conc.	0	CC2
Forane - 113C	SD3	SA2	Tetrahydrofuran	SA3	SA3
Forane - 113E	SD2	SA2	Turpentine	0	CC2
Forane - MES	SD2	SA2	Thimerosal	0	CC3
Formaldehyde 40%	0	0	Toluene	SD3	SA3
Freon	0	0	Tribasic Sodium Phosphite	0	0
Unleaded Gasoline	0	0	Trichloroethane	SA3	SA3
Hexane	SD1	SA1	Trichloroethylene	SA1	SA2
Heptane	SD1	SA1	Triethylamine	0	CC2
Hydrochloric Acid 5%	0	SA2	Trifluoroacetic Acid	0	SA2
Hydrochloric Acid 36%	0	SA3	Vinegar	0	0
Hydrochloric Acid Conc.	0	SD1	Xylene	0	SA2
Hydrofluoric Acid Conc.	0	0			

Categories:

SD = Surface Dulling - loss of gloss

CC = Color Change - discoloration, bleaching, staining, etc.

SA = Surface Attack - softening, warping, blistering, etc.

Ratings

0 = No change

1 = slight change

2 = moderate change

3 = severe change

Vinyl Stair Treads, Stringers, Risers, Nosing Specifications

GENERAL

REFERENCES

A. ASTM F 2169 – 02: Standard Specification for Resilient Stair Treads
B. ASTM F 925: Resistance to Chemicals
C. ASTM D 2240: Hardness
D. ASTM F 1514: Resistance to Heat
E. ASTM F 1515: Resistance to Light
F. ASTM F 1861: Dimensional Stability
G. ASTM D 2047: Coefficient of Friction

WARRANTY

A. Provide manufacturer's warranty under provisions of Section [01700.] [01740.]
B. Warranty: Include a 5-year warranty that products are free from defects in materials and workmanship.

PRODUCTS

ACCEPTABLE MANUFACTURERS

A. VPI, LLC (VPI), 3123 South 9th Street, P.O. Box 451, Sheboygan, WI 53082-0451

FLOOR COVERING MATERIALS

A. Vinyl Stair Treads: [ASTM F 1700] [VPI Vinyl Stair Treads][VPI Vinyl Safety Stair Treads]; [12½" by 36, 48 or 72"] with a tapering gauge of 0.210" to 0.125" thick; color [selected.]
B. VPI Vinyl Stringer; 12" x 50' by 0.080" thick; color [selected.]
C. VPI Vinyl Riser; 7" x [50' roll][48" lengths] by 0.125" thick; color [selected.]
D. VPI Vinyl Nosing; 2½" deep x 2⅛" high x 12' x 0.125" thick; color [selected.]

MANUFACTURING TOLERANCES

A. Precision control gauge to assure consistent surface and thickness.

ADHESIVES

A. Flooring Adhesives: [VPI No. 100 Epoxy Adhesive][VPI No. 8445 Acrylic Adhesive][VPI No. 600 Acrylic Adhesive][VPI No. AS-S, AS-M or AS-M Adhesive Tape] as required for specific use.

EXECUTION

EXAMINATION

Consult with manufacturer Installation & Maintenance Instructions for flooring preparation, and Floor Preparation Guide for precautions when substrate is lightweight aggregate concrete, magnesite flooring, or for below-grade conditions.

A. Verify that concrete sub floors on- or below-grade are installed over a suitable moisture retardant membrane.
B. Ensure concrete floors are dry and exhibit alkalinity levels between 5 & 8 pH with adequate carbonization and no dusting. Maximum moisture emission: 3 lbs./1,000 sq. ft./24 hours. Moisture test kits are available from VPI. Moisture tests are recommended.
C. Ensure floor surfaces are smooth and flat with maximum variation of ⅛ inch in 10 feet.
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.
E. Beginning of installation means acceptance of surface and conditions.

INSTALLATION

A. Install stair treads in accordance with manufacturer's printed instructions.
B. Use adhesive recommended by floor tile manufacturer.

PROTECTION

A. Unless VPI No. AS-M or AS-L adhesive tape is used, prohibit traffic on finished floor for 48 hours after installation.

CLEANING

A. Remove excess adhesive from floor, base and wall surfaces without damage, while adhesive is still wet.
B. Clean stair treads, riser, stringer and nosing surfaces in accordance with manufacturer's instructions.