

VPI Chemical Resistance Testing of ESD and PRT Tile Flooring

ASTM F925 Methodology



Chemical	1 Minute	24 Hour	Chemical	1 Minute	24 Hour
Acetic Acid Conc.	0	SA2	Hydrofluoric Acid Conc.	0	0
Acetic Acid 5% (Vinegar)	0	SD1	Hydrogen Peroxide 30%	0	SD1
Acetone	SA1	SA3	Hydrogen Chloride	0	SA1
Ammonium Hydroxide 20%	0	0	Iodine	CC1	CC3
Household Ammonia	0	0	Isopropyl Alcohol 100%	0	SD3
Amyl Acetate	0	SA3	Isopropanol 70% (Rubbing Alc)	0	SD1
Acetonitrile	SD1	SA3	Kerosene	0	SA1
Benzene	0	SA2	Methyl Alcohol	0	0
Betadine	0	CC3	Methyl Ether Ketone	SA1	SA3
Household Bleach	0	0	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	Phenol 5% (Disinfectant)	0	SD1
Dimethyl Sulfoxide	SA3	SA3	Silver Nitrate 5%	0	CC3
Dimethyl Formamide	SA1	SA3	Sodium Hydroxide 5%	0	0
Ether	SD1	SD3	Sodium Hydroxide 50%	0	0
Ethyl Acetate	0	SA3	Sodium Metasilicate	0	0
Ethyl Alcohol	0	0	Sulfuric Acid 5%	0	0
Ethyl Ether	0	SA1	Sulfuric Acid 77%	0	CC2
Forane - 113C	SD3	SA2	Sulfuric Acid Conc.	0	CC2
Forane - 113E	SD2	SA2	Tetrahydrofuran	SA3	SA3
Forane - MES	SD2	SA2	Turpentine	0	CC2
Formaldehyde 40%	0	0	Thimerosal	0	CC3
Freon	0	0	Toluene	SD3	SA3
Unleaded Gasoline	0	0	Tribasic Sodium Phosphite	0	0
Hexane	SD1	SA1	Trichloroethane	SA3	SA3
Heptane	SD1	SA1	Trichloroethylene	SA1	SA2
Hydrochloric Acid 5%	0	SA2	Triethylamine	0	CC2
Hydrochloric Acid 36%	0	SA3	Trifluoroacetic Acid	0	SA2
Hydrochloric Acid Conc.	0	SD1	Xylene	0	SA2

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