

CREATING A CLEANER, SAFER, HEALTHIER WORLD.



Corrosion Resistance Guide

- ChemXP™-VE
 - Versatile epoxy vinyl ester system
- ChemXP™-NovVE
 - Novolac vinyl ester system
- ChemXP™-VE Flake
 - High build vinyl ester flake-filled system
- ChemXP™-Nov Flake
 - Novolac epoxy flake-filled system
- ChemXP™-NovVE Flake
 - Novolac vinyl ester flake-filled system
- ChemXP™-Nov
 - Epoxy novolac resin system

CHEMICAL RESISTANCE GUIDE

Tennant ChemXP™ Flooring and Secondary Containment Coatings

Rating Description: This resistance chart provides exposure limits of the listed products in relation to chemical concentration and ambient temperature (≤100°F / 38°C) exposure only. Ratings can vary due to temperature, combination of chemicals, duration & frequency of exposure, clean up, etc. Always consult Manufacturer's Technical Department before choosing a final product recommendation. 1 - Frequent spill or continuous exposure service 2 - Secondary containment service (3 days exposure then spill cleanup) 3 - Occasional or intermittent exposure service, spill cleanup within 24 hrs NR - Not recommended ND - No data available * Coating layers may require graphite, carbon or other inert fillers ^ Not suitable for food grade immersion service	ChemXP™-VE Flake	ChemXP-VE	ChemXP™-NovVE Flake	ChemXP-NovVE	ChemXP™-Nov Flake	ChemXP™-Nov
Acetic Acid 0-10%	1	1	1	1	2	2
Acetic Acid 11-50%	1	1	1	1	3	3
Acetic Acid 51-100% (Glacial)	3	3	1	1	NR	NR
Acetone 100%	NR	NR	2	2	3	3
Acetone - 10%	1	1	1	1	1	1
Allyl Chloride	2	2	2	2	ND	ND
Alum (Saturated Solution)	1	1	1	1	1	1
Aluminum Chloride	1	1	1	1	1	1
Aluminum Nitrate (Saturated)	1	1	1	1	1	1
Aluminum Sulfate	1	1	1	1	1	1
Ammonium Chloride	1	1	1	1	1	1
Ammonium Hydroxide 20%	1	1	1	1	1	1
Ammonium Sulfate	1	1	1	1	1	1
Ammonium Sulfide	1	1	1	1	1	1
Aniline	NR	NR	2	2	2	2
Antifreeze (ethylene glycol)	1	1	1	1	1	1
Arsenic Acid	1	1	1	1	ND	ND
Aviation Fuel	1	1	1	1	1	1
Barium Chloride	1	1	1	1	1	1
Barium Hydroxide	1	1	1	1	1	1
Barium Sulfide	1	1	1	1	1	1
Benzene	NR	NR	1	1	1	1
Benzyl Alcohol	NR	NR	1	1	2	2
Benzoic Acid	1	1	1	1	1	1
Black Liquor (Paper)	1	1	1	1	1	1
Bleach 5.5% (as sodium hypochlorite)	1	1	1	1	2	2
Boric Acid	1	1	1	1	1	1
Brine, Salt	1	1	1	1	1	1
Bromine Water 3%	1	1	1	1	NR	NR
Butadiene	1	1	1	1	ND	ND
Butanol	1	1	1	1	1	2
Butyl Carbitol (Diethylene Glycol Butyl Ether)	2	2	1	1	2	2
Butyl Cellosolve	2	2	1	1	2	2
Calcium Bisulfite	1	1	1	1	1	1
Calcium Carbonate	1	1	1	1	1	1
Calcium Chloride	1	1	1	1	1	1

Tennant Flooring & Secondary Containment Coatings

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Calcium Hydroxide*	1	1	1	1	1	1
Calcium Hypochlorite* 5%	1	1	2	2	2	2
Calcium Nitrate	1	1	1	1	1	1
Carbon Tetrachloride	1	1	1	1	1	2
Castor Oil (Ricinus Oil)	1	1	1	1	1	1
Chlorine Water - Saturated	1	1	1	1	ND	ND
Chlorobenzene	NR	NR	1	1	2	3
Chromic Acid 10%	1	1	1	1	1	1
Chromic Acid 20%	1	1	1	1	2	2
Chromic Acid 40%	NR	NR	2	2	3	3
Citric Acid	1	1	1	1	1	1
Corn Oil ^	1	1	1	1	1	1
Cottonseed Oil	1	1	1	1	1	1
Corn Sugar/Syrup ^ (Glucose)	1	1	1	1	1	1
Cresol (Cresylic Acid)	NR	NR	3	3	3	3
Cyclohexane	1	1	1	1	1	1
Cyclohexanone	3	3	3	3	2	2
Diesel Fuel	1	1	1	1	1	1
Diethanolamine 100% (DEA)	1	1	1	1	ND	ND
Diethylene Glycol Butyl Ether (Butyl Carbitol)	2	2	1	1	1	2
Dimethylaminopropylamine (DMAPA)	NR	NR	2	2	ND	ND
Dimethyl Aniline	NR	NR	1	1	ND	ND
Dimethyl Formamide	NR	NR	3	3	3	3
Esters of Fatty Acids	1	1	1	1	1	1
Ethyl Acetate	NR	NR	2	2	2	2
Ethanol (Ethyl Alcohol) 10%	1	1	1	1	1	1
Ethanol (Ethyl Alcohol) 50%	1	1	1	1	1	1
Ethanol (Ethyl Alcohol) 100%	3	3	1	1	1	1
Ethylene Glycol (Antifreeze)	1	1	1	1	1	1
Ferric Sulfate	1	1	1	1	1	1
Ferrous Chloride	1	1	1	1	1	1
Ferrous Sulfate	1	1	1	1	1	1
Fertilizer Dry	1	1	1	1	1	1
Fertilizer Liquid N-P-K 8-8-8	1	1	1	1	1	1
Fluoboric Acid*	1	3	3	3	2	2
Fluosilicic Acid * 10%	1	3	3	3	ND	ND

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Fluosilicic Acid * 35%	1	3	3	3	ND	ND
Formaldehyde	1	1	1	1	1	2
Formic Acid 10%	1	1	1	1	3	3
Formic Acid 50%	1	1	1	1	NR	NR
Gasoline	1	1	1	1	1	1
Glucose ^	1	1	1	1	2	2
Glycerine	1	1	1	1	1	1
Heptane	1	1	1	1	1	1
Hexane	1	1	1	1	1	1
Hydrobromic Acid 20%	1	1	1	1	1	2
Hydrobromic Acid 48%	1	1	1	1	2	2
Hydrochloric Acid 10%	1	1	1	1	1	1
Hydrochloric Acid 20%	1	1	1	1	2	2
Hydrochloric Acid 30%	1	1	1	1	2	2
Hydrochloric Acid 32%	1	1	1	1	2	2
Hydrochloric Acid 37%	2	2	2	2	2	2
Hydrofluoric Acid 1%	1	1	1	1	2	2
Hydrofluoric Acid * 10%	1	1	1	1	3	3
Hydrofluoric Acid * 20%	2	2	2	2	3	3
Hydrofluoric Acid * 21 - 48%	NR	NR	NR	NR	NR	NR
Hydrofluosilicic Acid * 35%	1	3	3	3	ND	ND
Hydrogen Peroxide 5%	1	1	1	1	1	1
Hydrogen Peroxide 30%	1	1	1	1	2	2
Hydrogen Peroxide 50%	NR	NR	2	2	NR	NR
Hypochlorous Acid 10%	1	1	2	2	3	3
Iodine, Crystals & Vapor	1	1	1	1	2	2
Isopropyl Alcohol (isopropanol)	1	1	1	1	1	1
Jet Fuel	1	1	1	1	1	1
Kerosene	1	1	1	1	1	1
Lactic Acid	1	1	1	1	2	2
Lard	1	1	1	1	1	1
Lauric Acid	1	1	1	1	2	2
Lead Acetate	1	1	1	1	1	1
Levulinic Acid (Saturated)	1	1	1	1	1	1
Magnesium Chloride	1	1	1	1	1	1
Magnesium Sulfate	1	1	1	1	1	1

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Maleic Acid	1	1	1	1	2	2
Mercury and Salts	1	1	1	1	1	1
Metal Pickling Solutions (Sulfuric, HCL & or Phosphoric .5-15%)	1	1	1	1	3	3
Methanol 5% (Methyl Alcohol)	1	1	1	1	1	1
Methanol 20% (Methyl Alcohol)	NR	NR	1	1	2	2
Methanol 40-100% (Methyl Alcohol)	NR	NR	2	2	2	2
Methylene Chloride	NR	NR	2	2	3	3
Methyl Ethyl Ketone (MEK)	3	3	2	2	2	3
Methyl Isobutyl Ketone (MIBK)	2	2	1	1	1	2
Milk ^ - Fresh & Sour	1	1	1	1	1	1
Mineral Oils, aliphatic	1	1	1	1	1	1
Molasses ^	1	1	1	1	1	1
Motor Oil	1	1	1	1	1	1
Naphtha - Aliphatic	1	1	1	1	1	1
Naptha, Aromatic (Coal Tar)	NR	NR	1	1	1	1
Nickel Sulfate	1	1	1	1	1	1
Nitric Acid - 5%	1	1	1	1	2	2
Nitric Acid - 10%	1	1	1	1	2	3
Nitric Acid - 20%	1	1	1	1	NR	NR
Nitric Acid - 30%	2	2	1	1	NR	NR
Nitric Acid - 40%	NR	NR	2	2	NR	NR
Nitric Acid - 50%	NR	NR	2	2	NR	NR
Nitric Acid 60-70%	NR	NR	NR	NR	NR	NR
Nitrobenzene	NR	NR	2	2	1	2
Oil - Sweet & Sour Crude Petroleum	1	1	1	1	1	1
Oil - Animal	1	1	1	1	1	1
Oil - Mineral	1	1	1	1	1	1
Oil - Vegetable	1	1	1	1	1	1
Oleic Acid	1	1	1	1	2	3
Oxalic Acid (Saturated)	1	1	1	1	2	2
Perchloric Acid 10%	1	1	1	1	2	3
Perchloric Acid 30%	1	1	1	1	ND	ND
Perchloroethylene	2	2	1	1	1	2
Phenol 2%	2	2	1	1	1	1
Phenol 5%	NR	NR	1	1	1	2
Phenol 10%	NR	NR	1	1	2	2

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Phenol 15%	NR	NR	2	2	2	2
Phenol 85%	NR	NR	2	2	3	3
Phenol Sulfonic Acid	2	2	2	2	ND	ND
Phosphoric Acid 20%	1	1	1	1	1	2
Phosphoric Acid 85%	1	1	1	1	2	2
Picric Acid in Alcohol 10%	NR	NR	1	1	2	2
Potassium Bromide	1	1	1	1	1	1
Potassium Carbonate	1	1	1	1	1	1
Potassium Chloride	1	1	1	1	1	1
Potassium Cyanide (KCN)	1	1	1	1	1	1
Potassium Fluoride*	1	1	2	2	1	1
Potassium Hydroxide* 10%	1	1	2	2	1	1
Potassium Hydroxide* 50%	1	1	2	2	1	1
Potassium Nitrate	1	1	1	1	1	1
Potassium Permanganate	1	1	1	1	2	2
Potassium Sulfate	1	1	1	1	1	1
Propionic Acid 20%	1	1	1	1	3	3
Propionic Acid 50%	1	1	1	1	3	3
Propionic Acid 100%	NR	NR	1	1	NR	NR
Propylene Glycol	1	1	1	1	1	1
Salt Brine	1	1	1	1	1	1
Sea Water	1	1	1	1	1	1
Silver Nitrate	1	1	1	1	1	1
Skydrol (Phosphate Ester)	2	2	1	1	1	1
Sodium Bicarbonate	1	1	1	1	1	1
Sodium Carbonate	1	1	1	1	1	1
Sodium Chloride	1	1	1	1	1	1
Sodium Chlorite	1	1	1	1	2	2
Sodium Chlorate	1	1	1	1	2	2
Sodium Cyanide	1	1	1	1	1	1
Sodium Dichromate	1	1	1	1	1	1
Sodium Fluoride*	1	1	1	1	1	1
Sodium Hydroxide* 1-5%	1	1	1	1	1	1
Sodium Hydroxide* 10-25%	1	1	1	1	1	1
Sodium Hydroxide* 50%	1	1	1	1	1	1
Sodium Hypochlorite* 5%	1	1	1	1	2	2

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Sodium Hypochlorite* 18%	2	2	NR	NR	NR	NR
Sodium Hypochlorite* 24%	3	3	NR	NR	NR	NR
Sodium Sulfate	1	1	1	1	1	1
Sodium Sulfite	1	1	1	1	1	1
Sodium Thiosulfate	1	1	1	1	1	1
Stearic Acid	1	1	1	1	2	2
Styrene	NR	NR	1	1	2	2
Sugar ^ (Sucrose)	1	1	1	1	1	1
Sulfamic Acid 10%	1	1	1	1	2	2
Sulfamic Acid 25%	1	1	1	1	2	2
Sulfuric Acid 0-25%	1	1	1	1	1	1
Sulfuric Acid 26-50%	1	1	1	1	1	1
Sulfuric Acid 51-70%	1	1	1	1	1	1
Sulfuric Acid 71-75%	1	1	1	1	1	1
Sulfuric Acid 76-80%	2	2	1	1	1	1
Sulfuric Acid 81-98%	NR	NR	3	3	2	2
Sulfurous Acid 10%	1	1	1	1	1	1
Tannic Acid	1	1	1	1	1	1
Tartaric Acid	1	1	1	1	1	1
Tetrahydrofuran 5%	1	1	1	1	2	2
Tetrahydrofuran 100%	NR	NR	3	3	3	3
Toluene	2	2	1	1	1	1
Trichloroethane	1	1	1	1	2	2
Trichloroethylene	NR	NR	2	2	2	2
Turpentine	1	1	1	1	1	1
Urea Solutions	1	1	1	1	1	1
Vinegar ^	1	1	1	1	1	1
Water ^, Distilled & Demineralized	1	1	1	1	1	1
Wine ^	1	1	1	1	1	1
Xylene (Xylol)	2	2	1	1	1	1
Zinc Nitrate	1	1	1	1	1	1
Zinc Phosphate	1	1	1	1	1	1
Zinc Sulfate	1	1	1	1	1	1