

Chemical Resistance Chart for Concrete

Ambient temperature and maximum concentration apply, unless otherwise noted.

	CS2	CS4	791	988	NVE
A					
Acetic Acid (Glacial) [CH ₃ COOH]	4	4	4	4	1
Acetic Acid (10%) [CH ₃ COOH]	4	3	4	4	1
Acetic Acid (5%) [CH ₃ COOH]	4	2	4	3	1
Acetone [CH ₃ COCH ₃]	4	4	4	3	2
Aluminum Chloride (dry) [AlCl ₃]	1	1	1	1	1
Aluminum Sulfate (alum, dry) [Al ₂ (SO ₄) ₃]	1	1	1	1	1
Ammonia Anhydrous [NH ₃]	1	1	1	1	1
Ammonium Bicarbonate (dry) [NH ₄ HCO ₃]	1	1	1	1	1
Ammonium Carbonate (dry) [(NH ₄) ₂ CO ₃]	1	1	1	1	1
Ammonium Chloride (dry) [NH ₄ Cl]	1	1	1	1	1
Ammonium Hydroxide (28%) [NH ₄ OH]	2	1	1	1	1
Ammonium Monophosphate [(NH ₄)H ₂ PO ₄]	1	1	1	1	1
Ammonium Nitrate (dry) [NH ₄ NO ₃]	1	1	1	1	1
Ammonium Sulfate (dry) [(NH ₄) ₂ SO ₄]	1	1	1	1	1
Aqua Regia [(HNO ₃)/3(HCl)]	4	4	4	3	1
Aviation Fuel	1	1	1	1	1
B					
Barium Carbonate (dry) [BaCO ₃]	1	1	1	1	1
Barium Chloride (dry) [BaCl ₂]	1	1	1	1	1
Barium Hydroxide (dry) [Ba(OH) ₂]	1	1	1	1	1
Barium Sulfate (dry) [BaSO ₄]	1	1	1	1	1
Beer	1	1	1	1	1
Beet Sugar [C ₁₂ H ₂₂ O ₁₁]	1	1	1	1	1
Benzene [C ₆ H ₆]	4	4	3	2	1
Black Liquor	2	1	1	1	1
Brine	1	1	1	1	1
Bunker C					
Bunker C	1	1	1	1	1
C					
Calcium Bisulfite (dry) [Ca(HSO ₃) ₂]	3	1	1	1	1
Calcium Carbonate (dry) [CaCO ₃]	1	1	1	1	1
Calcium Chloride (dry) [CaCl ₂]	1	1	1	1	1
Calcium Hydroxide (dry) [Ca(OH) ₂]	1	1	1	1	1
Calcium Sulfate (dry) [CaSO ₄]	1	1	1	1	1
Cane Sugar [C ₁₂ H ₂₂ O ₁₁]	1	1	1	1	1

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Carbon Dioxide (dry) [CO2]	1	1	1	1	1
Carbonic Acid (dry) [H2CO3]	1	1	1	1	1
Chlorine Dioxide (12%) [ClO2]	4	2	3	2	1
Chrome Alum [KCr(SO4)2.12H2O]	1	1	1	1	1
Chromic Acid (20%) [H2Cr2O7]	4	3	4	3	2
Chromic Acid (10%) [H2Cr2O7]	4	2	3	2	1
Citric Acid (50%) [C6H8O7]	4	4	4	4	1
Citric Acid (20%) [C6H8O7]	3	1	2	1	1
Cupric Acetate (dry) [Cu(CH3O2)2]	1	1	1	1	1
Cuprous Chloride (dry) [CuCl]	1	1	1	1	1
Cupric Nitrate (dry) [Cu(NO3)2]	1	1	1	1	1
Cupric Sulfate (dry) [CuSO4]	1	1	1	1	1
Deionized Water [H2O]	1	1	1	1	1
Dibutyl Adipate (dry) [C14H26O4]	1	1	1	1	1
Dibutyl Phthalate (dry) [C16H22O4]	1	1	1	1	1
Dibutyl Sebacate (dry) [C18H34O4]	1	1	1	1	1
Diesel Fuel	1	1	1	1	1
Diethanolamine [C4H11O2N]	4	2	3	1	2
Diethylamine [C4H11N]	4	2	2	1	2
Diocetyl Phthalate (dry) [C24H40O4]	1	1	1	1	1
Diocetyl Sebacate (dry) [C26H52O4]	1	1	1	1	1
Epsom Salt [MgSO4.7H2O]	1	1	1	1	1
Ethanol [CH3CH2OH]	4	3	3	1	1
Ethylene Chloride [CH3CH2Cl]	4	3	4	3	2
Ethylene Dichloride [ClCH2CH2Cl]	4	3	4	3	2
Ethylene Glycol [HOCH2CH2OH]	1	1	1	1	1
Ethylene Oxide [C2H4O]	4	3	4	3	2
Ferric Chloride (dry) [FeCl3]	2	1	1	1	1
Ferric Chloride (50%) [FeCl3]	2	1	2	1	1
Ferric Nitrate [Fe(NO3)3]	3	1	1	1	1
Ferric Sulfate [Fe2(SO4)3]	3	1	1	1	1
Ferrous Chloride (100% dry) [FeCl2]	2	1	1	1	1
Ferrous Nitrate (dry) [Fe(NO3)2]	2	1	1	1	1

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Ferrous Sulfate (dry) [FeSO4]	2	1	1	1	1
Fluosilicic Acid (20%) [H2SiF6]	4	3	3	2	1
Fluosilicic Acid (10%) [H2SiF6]	4	2	2	1	1
Formaldehyde (35%) [CH2O]	3	1	1	1	1
Formic Acid (50%) [CH2O2]	4	4	4	4	1
Formic Acid (10%) [CH2O2]	4	3	4	4	1
Gasoline [C7H16/C10H22]	1	1	1	1	1
Glucose [C6H12O6]	1	1	1	1	1
Green/White Liquor	2	1	1	1	1
Heptane [C7H16]	1	1	1	1	1
Hexane [C6H14]	1	1	1	1	1
Hydrochloric Acid (37%) [HCl]	4	3	3	1	1
Hydrochloric Acid (10%) [HCl]	1	1	1	1	1
Hydrofluoric Acid (10%) [HF]	3	2	3	2	1
Hydrogen Peroxide (50%) [H2O2]	4	4	4	3	2
Hydrogen Peroxide (10%) [H2O2]	4	3	3	2	1
Hydrogen Peroxide (3%) [H2O2]	3	1	2	1	1
Hydrogen Sulfide (wet) [H2S]	3	1	1	1	1
Iso-Octane [C8H18]	2	1	1	1	1
Isopropyl Alcohol [C3H8O]	1	1	1	1	1
Jet Fuel (JP-5)	1	1	1	1	1
Kerosene	1	1	1	1	1
Lactic Acid (10%) [C3H6O3]	4	2	4	3	1
Lead Acetate [Pb(CH3COO)2]	2	1	1	1	1
Lime Water [Ca(OH)2/H2O]	1	1	1	1	1
Magnesium Bisulfate (dry) [Mg(HSO4)2]	1	1	1	1	1
Magnesium Chloride (dry) [MgCl2]	1	1	1	1	1
Magnesium Sulfate (dry) [MgSO4]	1	1	1	1	1
Malic Acid (30%) [C4H4O4]	3	1	2	1	1
Mercuric Chloride (dry) [HgCl2]	1	1	1	1	1
Mercury [Hg]	1	1	1	1	1
Methane [CH4]	1	1	1	1	1
Methanol [CH3OH]	4	3	3	2	1

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Methylamine [CH ₃ NH ₂]	4	2	3	1	2
MEK [C ₄ H ₈ O]	4	4	4	3	1
Methylene Chloride [CH ₂ Cl ₂]	4	3	4	3	2
MIBK [C ₆ H ₁₀ O]	3	2	3	2	1
Mineral Spirits	1	1	1	1	2
Monoethanolamine [H ₂ NCH ₂ CH ₂ OH]	3	2	3	2	1
N					
Naphtha	1	1	1	1	1
Nickel Ammonium Sulfate (dry) [NiNH ₄ SO ₄]	2	1	1	1	1
Nickel Chloride (dry) [NiCl ₂]	2	1	1	1	1
Nickel Nitrate (dry) [Ni(NO ₃) ₂]	2	1	1	1	1
Nickel Sulfate (dry) [NiSO ₄]	3	1	1	1	1
Nitric Acid (40%) [HNO ₃]	4	4	4	4	1
Nitric Acid (20%) [HNO ₃]	4	3	3	1	1
Nitric Acid (10%) [HNO ₃]	4	2	2	1	1
Nitrogen [N ₂]	1	1	1	1	1
O					
Oleic Acid [C ₁₈ H ₃₄ O ₂]	4	1	4	2	1
Ozone 0.5 ppm [O ₃]	4	2	3	2	1
Oleum [fuming H ₂ SO ₄]	4	3	4	3	4
P					
Palmitic Acid [CH ₃ (CH ₂) ₁₄ COOH]	4	2	3	2	1
Paraffin Wax	1	1	1	1	1
Pentane [C ₅ H ₁₂]	1	1	1	1	1
Phenol (Carbolic Acid) [C ₆ H ₆ O]	4	3	4	3	2
Phosphoric Acid (85%) [H ₃ PO ₄]	4	4	4	1	1
Phosphoric Acid (50%) [H ₃ PO ₄]	4	4	3	1	1
Phosphoric Acid (30%) [H ₃ PO ₄]	4	2	2	1	1
Phosphoric Acid (10%) [H ₃ PO ₄]	1	1	1	1	1
Pickle Brine (2-4% Acetic Acid)	4	2	4	3	1
Potash Alum (dry) [AlK ₂ O ₈ S ₂]	1	1	1	1	1
Potassium Bicarbonate (dry) [KHCO ₃]	1	1	1	1	1
Potassium Bisulfate (dry) [KHSO ₄]	1	1	1	1	1
Potassium Bromide (30%) [KBr]	1	1	1	1	1
Potassium Carbonate (50%) [K ₂ CO ₃]	1	1	1	1	1
Potassium Chloride (30%) [KCl]	1	1	1	1	1

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Potassium Cyanide (dry) [KCN]	2	1	2	2	1
Potassium Dichromate (dry) [K2Cr2O7]	2	1	2	1	1
Potassium Phosphate Dibasic (dry) [K2HPO4]	3	1	2	1	1
Potassium Ferricyanide (dry) [K3Fe(CN)6]	2	1	2	1	1
Potassium Ferrocyanide (dry) [K4Fe(CN)6]	2	1	2	1	1
Potassium Hydroxide (50%) [KOH]	2	1	1	1	1
Potassium Hydroxide (10%) [KOH]	1	1	1	1	1
Potassium Iodide [KI]	1	1	1	1	1
Potassium Nitrate (dry) [KNO3]	1	1	1	1	1
Potassium Permanganate [KMnO4]	3	1	2	1	1
Propylene Oxide [C3H6O]	3	2	3	2	2
S	1	1	1	1	1
Salt Water [NaCl+H2O+minerals]	1	1	1	1	1
Sewage	1	1	1	1	1
Silicone Oil	1	1	1	1	1
Silver Nitrate [AgNO3]	1	1	1	1	1
Skydrol [aircraft hydraulic fluid]	1	1	1	1	1
Sodium Acetate [CH3COONa]	1	1	1	1	1
Sodium Aluminate [AlNaO2]	1	1	1	1	1
Sodium Bicarbonate [NaHCO3]	1	1	1	1	1
Sodium Bisulfate [NaHSO4]	1	1	1	1	1
Sodium Bisulfite [Na2S2O5]	1	1	1	1	1
Sodium Borate [Na2B4O7]	1	1	1	1	1
Sodium Bromide [NaBr]	1	1	1	1	1
Sodium Carbonate [Na2CO3]	1	1	1	1	1
Sodium Chlorate (dry) [NaClO3]	1	1	1	1	1
Sodium Chloride (dry) [NaCl]	1	1	1	1	1
Sodium Chromate [Na2CrO4]	2	1	2	1	1
Sodium Cyanide (dry) [NaCN]	1	1	1	1	1
Sodium Fluoride (dry) [NaF]	2	1	1	1	1
Sodium Hydroxide (50%) [NaOH]	2	1	2	1	1
Sodium Hydroxide (10%) [NaOH]	1	1	1	1	1
Sodium Hypochlorite (1.5%) [NaClO]	4	3	4	3	2
Sodium Hypochlorite (6%) [NaClO]	2	1	1	1	1

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Sodium Metaphosphate (dry) [(NaPO3)n]	2	1	1	1	1
Sodium Metasilicate (dry) [Na2SiO3]	2	1	1	1	1
Sodium Nitrate (dry) [NaNO3]	1	1	1	1	1
Sodium Phosphate Acid [NaH2PO4]	2	1	2	1	1
Sodium Silicate (dry) [Na2SiO3]	1	1	1	1	1
Sodium Sulfate (dry) [Na2SO4]	1	1	1	1	1
Sodium Sulfite (dry) [Na2SO3]	1	1	1	1	1
Stannic Chloride (dry) [SnCl4]	1	1	1	1	1
Starch [C6H12O6]n	1	1	1	1	1
Sulfuric Acid (98%) [H2SO4]	4	1	4	1	4
Sulfuric Acid (70%) [H2SO4]	4	1	4	1	1
Sulfuric Acid (30%) [H2SO4]	1	1	1	1	1
Sulfuric Acid (10%) [H2SO4]	1	1	1	1	1
Sulfur Dioxide [SO2]	1	1	1	1	1
Tar	1	1	1	1	1
Toluene [C7H8]	4	4	2	1	1
Transformer Oil	1	1	1	1	1
Turpentine [C10H16]	2	1	1	1	1
Urea (dry) [H2NCONH2]	1	1	1	1	1
Urea (30%) [H2NCONH2]	1	1	1	1	1
Vegetable Oil	1	1	1	1	1
Vinegar (4-8% Acetic Acid)	4	2	4	3	1
Wine (7-20% Ethanol)	2	1	2	1	1
Xylene [C6H4(CH3)2]	2	1	1	1	1
Zinc Chloride (dry) [ZnCl2]	1	1	1	1	1
Zinc Hydrosulfite (dry) [Zn(HS03)2]	1	1	1	1	1
Zinc Sulfate (dry) [ZnSO4]	1	1	1	1	1

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