



ARC Chemical Resistance Chart for Concrete

Ambient temperature and maximum concentration apply, unless otherwise noted.

	FCS 201	CS2	CS4	FCS 600	S1HB	FCS 303	FCS 304	791	988	FCS 601	NVE
Acetic Acid (Glacial) [CH ₃ COOH]	4	4	4	4	4	4	4	4	4	4	1
Acetic Acid (10%) [CH ₃ COOH]	4	4	3	2	4	4	4	4	4	1	1
Acetic Acid (5%) [CH ₃ COOH]	3	4	2	1	4	4	4	4	3	1	1
Acetone [CH ₃ COCH ₃]	4	4	4	4	4	4	4	4	3	4	1
Aluminum Chloride (dry) [AlCl ₃]	1	1	1	1	1	1	1	1	1	1	1
Aluminum Sulfate (alum, dry)[Al ₂ (SO ₄) ₃]	1	1	1	1	1	1	1	1	1	1	1
Ammonia Anhydrous [NH ₃]	1	1	1	1	1	1	1	1	1	1	1
Ammonium Bicarbonate (dry) [NH ₄ HCO ₃]	1	1	1	1	1	1	1	1	1	1	1
Ammonium Carbonate (dry) [(NH ₄) ₂ CO ₃]	1	1	1	1	1	1	1	1	1	1	1
Ammonium Chloride (dry) [NH ₄ Cl]	1	1	1	1	1	1	1	1	1	1	1
Ammonium Hydroxide (28%) [NH ₄ OH]	3	2	1	1	1	1	1	1	1	1	1
Ammonium Monophosphate [(NH ₄)H ₂ PO ₄]	2	1	1	2	1	2	2	1	1	2	1
Ammonium Nitrate (dry) [NH ₄ NO ₃]	1	1	1	1	1	1	1	1	1	1	1
Ammonium Sulfate (dry) [(NH ₄) ₂ SO ₄]	1	1	1	1	1	1	1	1	1	1	1
Aqua Regia [(HNO ₃)/3(HCl)]	4	4	4	4	4	4	4	4	3	4	1
Aviation Fuel	1	1	1	1	1	1	1	1	1	1	1
Barium Carbonate (dry) [BaCO ₃]	1	1	1	1	1	1	1	1	1	1	1
Barium Chloride (dry) [BaCl ₂]	1	1	1	1	1	1	1	1	1	1	1
Barium Hydroxide (dry) [Ba(OH) ₂]	1	1	1	1	1	1	1	1	1	1	1
Barium Sulfate (dry) [BaSO ₄]	1	1	1	1	1	1	1	1	1	1	1
Beer	1	1	1	1	1	1	1	1	1	1	1
Beet Sugar [C ₁₂ H ₂₂ O ₁₁]	1	1	1	2	1	1	1	1	1	2	1
Benzene [C ₆ H ₆]	4	4	4	4	4	4	4	3	2	4	1
Black Liquor	3	2	1	1	1	2	2	1	1	1	1
Brine	1	1	1	1	1	1	1	1	1	1	1
Bunker C	1	1	1	1	1	1	1	1	1	1	1
Calcium Bisulfite (dry) [Ca(HSO ₃) ₂]	3	3	1	1	3	3	3	1	1	1	1
Calcium Carbonate (dry) [CaCO ₃]	1	1	1	1	1	1	1	1	1	1	1
Calcium Chloride (dry) [CaCl ₂]	1	1	1	1	1	1	1	1	1	1	1
Calcium Hydroxide (dry) [Ca(OH) ₂]	1	1	1	1	1	1	1	1	1	1	1
Calcium Sulfate (dry) [CaSO ₄]	1	1	1	1	1	1	1	1	1	1	1
Cane Sugar[C ₁₂ H ₂₂ O ₁₁]	1	1	1	2	1	1	1	1	1	2	1
Carbon Dioxide (dry) [CO ₂]	1	1	1	1	1	1	1	1	1	1	1
Carbonic Acid (dry) [H ₂ CO ₃]	1	1	1	1	1	1	1	1	1	1	1
Chlorine Dioxide(12%) [ClO ₂]	4	4	2	2	3	4	4	3	2	2	1

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Chrome Alum [KCr(SO4)2.12H2O]	2	1	1	1	1	2	2	1	1	1	1
Chromic Acid (20%) [H2Cr2O7]	4	4	3	2	4	4	4	4	3	1	2
Chromic Acid (10%) [H2Cr2O7]	4	4	2	1	3	3	3	3	2	1	1
Citric Acid (50%) [C6H8O7]	4	4	4	1	4	4	4	4	4	1	1
Citric Acid (20%) [C6H8O7]	3	3	1	1	3	2	2	2	1	1	1
Cupric Acetate (dry) [Cu(C2H3O2)2]	1	1	1	2	1	1	1	1	1	2	1
Cuprous Chloride (dry) [CuCl]	1	1	1	1	1	1	1	1	1	1	1
Cupric Nitrate (dry) [Cu(NO3)2]	1	1	1	1	1	1	1	1	1	1	1
Cupric Sulfate (dry) [CuSO4]	1	1	1	1	1	1	1	1	1	1	1
Deionized Water [H2O]	1	1	1	1	1	1	1	1	1	1	1
Dibutyl Adipate (dry) [C14H26O4]	2	1	1	2	1	2	2	1	1	2	1
Dibutyl Phthalate (dry) [C16H22O4]	1	1	1	1	1	1	1	1	1	1	1
Dibutyl Sebacate (dry) [C18H34O4]	1	1	1	1	1	1	1	1	1	1	1
Diesel Fuel	1	1	1	1	1	1	1	1	1	1	1
Diethanolamine [C4H11O2N]	4	4	2	3	3	3	3	3	1	3	2
Diethylamine [C4H11N]	4	4	2	4	3	3	3	2	1	4	2
Diocetyl Phthalate (dry) [C24H40O4]	1	1	1	1	1	1	1	1	1	1	1
Diocetyl Sebacate (dry) [C26H52O4]	1	1	1	2	1	1	1	1	1	2	1
Epsom Salt [MgSO4.7H2O]	1	1	1	1	1	1	1	1	1	1	1
Ethanol [CH3CH2OH]	4	4	3	2	3	3	3	3	1	2	1
Ethylene Chloride [CH3CH2Cl]	4	4	3	3	4	4	4	4	3	3	2
Ethylene Dichloride [ClCH2CH2Cl]	4	4	3	4	4	4	4	4	3	4	2
Ethylene Glycol [HOCH2CH2OH]	1	1	1	1	1	1	1	1	1	1	1
Ethylene Oxide [C2H4O]	4	4	3	4	4	4	4	4	3	4	2
Ferric Chloride (dry) [FeCl3]	2	2	1	1	2	2	2	1	1	1	1
Ferric Chloride (50%) [FeCl3]	2	2	1	1	2	2	2	2	1	1	1
Ferric Nitrate [Fe(NO3)3]	3	3	1	1	2	2	2	1	1	1	1
Ferric Sulfate [Fe2(SO4)3]	3	3	1	1	2	2	2	1	1	1	1
Ferrous Chloride (100%,dry) [FeCl2]	2	2	1	1	2	2	2	1	1	1	1
Ferrous Nitrate (dry) [Fe(NO3)2]	2	2	1	1	2	2	2	1	1	1	1
Ferrous Sulfate (dry) [FeSO4]	2	2	1	1	2	2	2	1	1	1	1
Fluosilicic Acid (20%) [H2SiF6]	4	4	3	1	4	4	4	3	2	1	1
Fluosilicic Acid (10%) [H2SiF6]	4	4	2	1	3	3	3	2	1	1	1
Formaldehyde (35%) [CH2O]	3	3	1	2	2	2	2	1	1	2	1
Formic Acid (50%) [CH2O2]	4	4	4	2	4	4	4	4	4	2	1

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Formic Acid (10%) [CH2O2]	4	4	3	1	4	4	4	4	4	1	1
Gasoline [C7H16/C10H22]	1	1	1	1	1	1	1	1	1	1	1
Glucose [C6H12O6]	1	1	1	1	1	1	1	1	1	1	1
Green/White Liquor	3	2	1	1	1	2	2	1	1	1	1
Heptane [C7H16]	2	1	1	1	1	2	2	1	1	1	1
Hexane [C6H14]	2	1	1	1	1	2	2	1	1	1	1
Hydrochloric Acid (37%) [HCl]	4	4	3	4	3	4	3	3	1	3	1
Hydrochloric Acid (10%) [HCl]	1	1	1	1	1	1	1	1	1	1	1
Hydrofluoric Acid (10%) [HF]	3	3	2	2	3	3	3	3	2	2	1
Hydrogen Peroxide (50%) [H2O2]	4	4	4	2	4	4	4	4	3	1	2
Hydrogen Peroxide (10%) [H2O2]	4	4	3	1	4	4	4	3	2	1	1
Hydrogen Peroxide (3%) [H2O2]	3	3	1	1	3	3	3	2	1	1	1
Hydrogen Sulfide (wet) [H2S]	3	3	1	1	2	2	2	1	1	1	1
Iso-Octane [C8H18]	2	2	1	1	1	2	2	1	1	1	1
Isopropyl Alcohol [C3H8O]	2	1	1	2	1	2	2	1	1	2	1
Jet Fuel (JP-5)	1	1	1	2	1	1	1	1	1	2	1
Kerosene	1	1	1	2	1	1	1	1	1	2	1
Lactic Acid (10%) [C3H6O3]	4	4	2	1	3	4	4	4	3	1	1
Lead Acetate [Pb(CH3COO)2]	2	2	1	1	2	2	2	1	1	1	1
Lime Water [Ca(OH)2/H2O]	1	1	1	1	1	1	1	1	1	1	1
Magnesium Bisulfate (dry) [Mg(HSO4)2]	1	1	1	1	1	1	1	1	1	1	1
Magnesium Chloride (dry) [MgCl2]	1	1	1	1	1	1	1	1	1	1	1
Magnesium Sulfate (dry) [MgSO4]	1	1	1	1	1	1	1	1	1	1	1
Maleic Acid (30%) [C4H4O4]	3	3	1	2	2	2	2	2	1	2	1
Mercuric Chloride (dry) [HgCl2]	1	1	1	1	1	1	1	1	1	1	1
Mercury [Hg]	1	1	1	1	1	1	1	1	1	1	1
Methane [CH4]	2	2	1	2	2	1	1	1	1	2	1
Methanol [CH3OH]	4	4	3	3	3	4	3	3	2	3	1
Methylamine [CH3NH2]	4	4	2	4	3	3	3	3	1	4	2
MEK [C4H8O]	4	4	4	4	4	4	4	4	3	4	1
Methylene Chloride [CH2Cl2]	4	4	3	4	4	4	4	4	3	4	2
MIBK [C6H12O]	3	3	2	4	3	3	3	3	2	4	1
Mineral Spirits	2	1	1	2	1	2	2	1	1	2	2
Monoethanolamine [H2NCH2CH2OH]	3	3	2	4	3	3	3	3	2	4	1
Naphtha	2	1	1	1	1	2	2	1	1	1	1

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Nickel Ammonium Sulfate (dry) [NiNH4SO4]	2	2	1	2	2	2	2	1	1	2	1
Nickel Chloride (dry) [NiCl2]	2	2	1	1	2	2	2	1	1	1	1
Nickel Nitrate (dry) [Ni(NO3)2]	2	2	1	1	2	2	2	1	1	1	1
Nickel Sulfate (dry) [NiSO4]	3	3	1	1	3	2	2	1	1	1	1
Nitric Acid (40%) [HNO3]	4	4	4	2	4	4	4	4	4	1	1
Nitric Acid (20%) [HNO3]	4	4	3	1	4	4	4	3	2	1	1
Nitric Acid (10%) [HNO3]	4	4	2	1	4	3	3	2	1	1	1
Nitrogen [N2]	1	1	1	1	1	1	1	1	1	1	1
Oleic Acid [C18H34O2]	4	4	1	1	3	4	4	4	3	1	1
Ozone 0.5 ppm [O3]	4	4	2	2	3	3	3	3	2	2	1
Oleum [fuming H2SO4]	4	4	2	4	4	4	4	4	2	4	1
Palmitic Acid [CH3(CH2)14COOH]	4	4	2	2	4	4	4	3	2	2	1
Paraffin Wax	1	1	1	1	1	1	1	1	1	1	1
Pentane [C5H12]	1	1	1	1	1	1	1	1	1	1	1
Phenol (Carbolic Acid) [C6H6O]	4	4	3	4	4	4	4	4	3	4	2
Phosphoric Acid (85%) [H3PO4]	4	4	4	2	4	4	4	4	2	2	1
Phosphoric Acid (50%) [H3PO4]	4	4	4	1	4	3	3	3	1	1	1
Phosphoric Acid (30%) [H3PO4]	4	4	2	1	4	2	2	2	1	1	1
Phosphoric Acid (10%) [H3PO4]	3	1	1	1	1	1	1	1	1	1	1
Pickle Brine (2-4% Acetic Acid)	4	4	2	1	4	4	4	4	3	1	1
Potash Alum (dry) [AlK08S2]	1	1	1	1	1	1	1	1	1	1	1
Potassium Bicarbonate (dry) [KHCO3]	1	1	1	1	1	1	1	1	1	1	1
Potassium Bisulfate (dry) [KHSO4]	1	1	1	2	1	1	1	1	1	2	1
Potassium Bromide (30%) [KBr]	1	1	1	1	1	1	1	1	1	1	1
Potassium Carbonate (50%) [K2CO3]	1	1	1	1	1	1	1	1	1	1	1
Potassium Chloride (30%) [KCl]	1	1	1	1	1	1	1	1	1	1	1
Potassium Cyanide (dry) [KCN]	2	2	1	4	2	3	3	2	2	4	1
Potassium Dichromate (dry) [K2Cr2O7]	2	2	1	1	2	2	2	2	1	1	1
Potassium Phosphate Dibasic (dry) [K2HPO4]	3	3	1	2	3	3	3	2	1	2	1
Potassium Ferricyanide (dry) [K3Fe(CN)6]	2	2	1	2	2	2	2	2	1	2	1
Potassium Ferrocyanide (dry) [K4Fe(CN)6]	2	2	1	2	2	2	2	2	1	2	1
Potassium Hydroxide (50%) [KOH]	4	2	1	1	2	1	1	1	1	1	1
Potassium Hydroxide (10%) [KOH]	2	1	1	1	1	1	1	1	1	1	1
Potassium Iodide [KI]	1	1	1	1	1	1	1	1	1	1	1
Potassium Nitrate (dry) [KNO3]	1	1	1	1	1	1	1	1	1	1	1

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Potassium Permanganate [KMnO ₄]	3	3	1	2	3	3	3	2	1	2	1
Propylene Oxide [C ₃ H ₆ O]	3	3	2	4	3	3	3	3	2	4	2
Salt Water [NaCl+H ₂ O+minerals]	1	1	1	1	1	1	1	1	1	1	1
Sewage	1	1	1	1	1	1	1	1	1	1	1
Silicone Oil	1	1	1	1	1	1	1	1	1	1	1
Silver Nitrate [AgNO ₃]	1	1	1	1	1	1	1	1	1	1	1
Skydrol [aircraft hydraulic fluid]	1	1	1	2	1	1	1	1	1	2	1
Sodium Acetate [CH ₃ COONa]	1	1	1	1	1	1	1	1	1	1	1
Sodium Aluminate [AlNaO ₂]	1	1	1	1	1	1	1	1	1	1	1
Sodium Bicarbonate [NaHCO ₃]	1	1	1	1	1	1	1	1	1	1	1
Sodium Bisulfate [NaHSO ₄]	1	1	1	1	1	1	1	1	1	1	1
Sodium Bisulfite [Na ₂ S ₂ O ₅]	1	1	1	1	1	1	1	1	1	1	1
Sodium Borate [Na ₂ B ₄ O ₇]	1	1	1	1	1	1	1	1	1	1	1
Sodium Bromide [NaBr]	1	1	1	1	1	1	1	1	1	1	1
Sodium Carbonate [Na ₂ CO ₃]	1	1	1	1	1	1	1	1	1	1	1
Sodium Chlorate (dry) [NaClO ₃]	1	1	1	1	1	1	1	1	1	1	1
Sodium Chloride (dry) [NaCl]	1	1	1	1	1	1	1	1	1	1	1
Sodium Chromate [Na ₂ CrO ₄]	2	2	1	1	2	2	2	2	1	1	1
Sodium Cyanide (dry) [NaCN]	1	1	1	1	1	1	1	1	1	1	1
Sodium Fluoride (dry) [NaF]	2	2	1	1	2	1	1	1	1	1	1
Sodium Hydroxide (50%) [NaOH]	4	2	1	1	2	1	1	2	1	1	1
Sodium Hydroxide (10%) [NaOH]	1	1	1	1	1	1	1	1	1	1	1
Sodium Hypochlorite (15%) [NaClO]	4	4	3	2	4	4	4	4	3	2	2
Sodium Hypochlorite (6%) [NaClO]	2	2	1	1	1	1	1	1	1	1	1
Sodium Metaphosphate (dry) [(NaPO ₃) _n]	2	2	1	1	2	2	2	1	1	1	1
Sodium Metasilicate (dry) [Na ₂ SiO ₃]	2	2	1	2	2	2	2	1	1	2	1
Sodium Nitrate (dry) [NaNO ₃]	1	1	1	1	1	1	1	1	1	1	1
Sodium Phosphate Acid [NaH ₂ PO ₄]	2	2	1	1	2	2	2	2	1	1	1
Sodium Silicate (dry) [Na ₂ SiO ₃]	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulfate (dry) [Na ₂ SO ₄]	1	1	1	2	1	1	1	1	1	2	1
Sodium Sulfite (dry) [Na ₂ SO ₃]	1	1	1	1	1	1	1	1	1	1	1
Stannic Chloride (dry) [SnCl ₄]	1	1	1	1	1	1	1	1	1	1	1
Starch [C ₆ H ₁₂ O ₆] _n	1	1	1	1	1	1	1	1	1	1	1
Sulfuric Acid (98%) [H ₂ SO ₄]	4	4	1	4	4	4	4	4	1	4	4
Sulfuric Acid (70%) [H ₂ SO ₄]	4	4	1	2	4	4	4	4	1	2	1

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Sulfuric Acid (30%) [H2SO4]	2	1	1	2	1	1	1	1	1	2	1
Sulfuric Acid (10%) [H2SO4]	1	1	1	1	1	1	1	1	1	1	1
Sulfur Dioxide [SO2]	1	1	1	1	1	1	1	1	1	1	1
Tar	1	1	1	1	1	1	1	1	1	1	1
Toluene [C7H8]	4	4	4	4	4	3	3	2	1	4	1
Transformer Oil	1	1	1	1	1	1	1	1	1	1	1
Turpentine [C10H16]	2	2	1	2	2	2	2	1	1	2	1
Urea (dry) [H2NCONH2]	1	1	1	1	1	1	1	1	1	1	1
Urea (30%) [H2NCONH2]	1	1	1	1	1	1	1	1	1	1	1
Vegetable Oil	1	1	1	1	1	1	1	1	1	1	1
Vinegar (4-8% Acetic Acid)	4	4	2	1	4	4	4	4	3	1	1
Wine (7-20% Ethanol)	2	2	1	1	2	2	2	2	1	1	1
Xylene [C6H4(CH3)2]	1	2	1	4	1	2	2	1	1	4	1
Zinc Chloride (dry) [ZnCl2]	1	1	1	1	1	1	1	1	1	1	1
Zinc Hydrosulfite (dry) [Zn(HSO3)2]	1	1	1	2	1	1	1	1	1	2	1
Zinc Sulfate (dry) [ZnSO4]	1	1	1	1	1	1	1	1	1	1	1

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