



Technical Data: PPC Coatings Chemical Challenges

These chemical agents have been tested on PPC Coatings resins in a pure form. Note that these are not limit tests. Should your requirements exceed the concentration (CONC %) or service temperature (ST° F) shown, please contact your PPC Coatings representative.

Chemical Challenge	Conc.%	ST° F	Chemical Challenge	Conc.%	ST° F
A			Benzene, 5% Kerosene		75
Acetic Acid	25	170	Benzene Sulfuric Acid	30	170
Acetic Acid	50	140	Benzoic Acid	All	170
Acetic Acid, Glacial	75	NR	Black Liquor	All	150
Acetone	100	NR	Borax	All	140
Alcohol, Butyl	100	100	Boric Acid	All	160
Alcohol, Ethyl	100	100	Brine	All	170
Alcohol, Ethyl	10	125	Bromine, Dry Gas	75	
Alcohol, Isopropyl	10	110	Bromine, Wet Gas		75
Alcohol, Isopropyl	100	100	Bromine, Liquid	100	75
Alcohol, Methyl	100	NR	Butyl Acetate	100	NR
Alcohol, Amyl	100	100	Butyric Acid	25	120
Aluminum Chloride	All	170	C		
Aluminum Fluoride	All	75	Calcium Bisulfate	All	160
Aluminum Hydroxide	All	75	Calcium Carbonate	All	160
Aluminum Nitrate	All	150	Calcium Chloride	All	170
Aluminum Sulfate	All	170	Calcium Chlorate	All	150
Alum	All	170	Calcium Hydroxide	All	75
Ammonia, Aqueous	5	125	Calcium Hypochlorite	10	125
Ammonia, Liquid	NR		Calcium Nitrate	All	170
Ammonium Chloride	All	170	Calcium Sulfate	All	170
Ammonium Hydroxide	10	75	Camphor	100	75
Ammonium Nitrate	60	160	Carbon Dioxide	100	75
Ammonium Phosphate	All	160	Carbon Disulfide	All	NR
Ammonium Sulfate	All	170	Carbon Monoxide	100	170
Amyl Acetate	100	75	Carbon Tetrachloride	100	NR
Antimony Trichloride	100	160	Carbonic Acid	All	150
B			Castor Oil	All	170
Barium Chloride	All	170	Chloroacetic Acid	25	75
Barium Hydroxide	10	75	Chlorine, Dry Gas	140	
Barium Sulfate	All	160	Chlorine, Wet Gas		75
Beer		120	Chlorine, Liquid		NR
Benzene	NR		Chlorobenzene		NR

NR = Not Recommended

Chemical Challenge	Conc.%	ST° F	Chemical Challenge	Conc.%	ST° F
Chromic Acid		NR	G		
Citric Acid	All	160	Gasohol	All	110
Copper Chloride	All	170	Gas, Natural	All	170
Copper Cyanide	All	150	Gasoline, Auto	All	110
Copper Fluoride	All	75	Gasoline, Aviation	All	110
Copper Nitrate	All	150	Gasoline, Ethyl	All	110
Copper Plating Solution		160	Gasoline, Low Lead	All	110
Copper Sulfate	All	170	Glucose	All	100
Crude Oil, Sour	All	170	Glycerine	All	170
Crude Oil, Sweet	All	170	Glycol, Ethylene	All	170
Cyclohexane	All	170	Glycol, Propylene	All	170
D			H		
Deionized Water	150		Herbicides		80
Detergents, Sulfonated		150	Heptane	100	100
Dichlorobenzene	NR		Hexane	100	100
Diesel Fuel	100	170	Hydraulic Fluid	100	100
Diethylene Glycol	100	170	Hydrochloric Acid	10	140
Dioctyl Phthalate	All	NR	Hydrochloric Acid	20	120
Dipropylene Glycol		170	Hydrochloric Acid	37	75
Distilled Water	160		Hydrocyanic Acid	10	75
E			Hydrofluoric Acid	10	NR
Electrosol	5	120	Hydrofluosilicic Acid	30	NR
Esters, Fatty Acids	All	150	Hydrogen Bromide, Dry Gas	75	
Ethyl Ether		NR	Hydrogen Bromide, Wet Gas	80	
Ethylene Glycol	All	170	Hydrogen Chloride, Dry Gas	100	
F			Hydrogen Chloride, Wet Gas	75	
Fatty Acids	All	170	Hydrogen Peroxide	5	160
Ferric Chloride	All	170	Hydrogen Sulfide, Dry Gas		140
Ferric Nitrate	All	170	Hypochlorous Acid	20	80
Ferric Sulfate	All	170	I		
Ferrous Chloride	All	170	Insecticides		80
Ferrous Nitrate	All	170	J		
Ferrous Sulfate	All	170	Jet Fuel		120
Formaldehyde	40	125			
Formic Acid	25	80			

NR = Not Recommended

Chemical Challenge	Conc.%	ST° F	Chemical Challenge	Conc.%	ST° F
K					
Kerosene	100	120	Oleic Acid	All	170
Kraft Liquid		160	Oxalic Acid	15	170
L			P		
Lactic Acid	All	160	Paper Mill Liquors	All	170
Lauric Acid	All	160	Perchloric Acid	20	80
Lead Acetate	All	160	Phenol		NR
Levullnic Acid	All	160	Phosphoric Acid	80	170
Linseed Oil	All	160	Polyvinyl Acetate Emulsion	All	120
M			Polyvinyl Alcohol	100	150
Magnesium Carbonate	All	150	Picric Acid, Alcoholic		NR
Magnesium Chloride	All	170	Pickling Acids, Sulfuric and Hydrochloric		150
Magnesium Hydroxide	All	75	Plating Solution		140
Magnesium Sulfate	All	150	Potassium Bicarbonate	All	NR
Maleic Acid	All	170	Potassium Bromide	All	160
Maleic Anhydride	100	120	Potassium Carbonate	10	80
Mercuric Chloride		NR	Potassium Chloride	All	170
Mercury	All	170	Potassium Dichromate	All	170
Methylene Chloride		NR	Potassium Ferricyanide	All	170
Methyl Isobutyl Ketone		NR	Potassium Ferrocyanide	All	170
Milk Waste	All	170	Potassium Hydroxide	All	NR
Mineral Oils	100	170	Potassium Nitrate	All	170
N			Potassium Permanganate	All	100
Naphtha	100	170	Potassium Porsulfate	All	75
Naphthalene	100	75	Potassium Sulfate	All	170
Nickel Chloride	All	170	Pyridine	NR	
Nickel Nitrate	All	170	S		
Nickel Plating Solution		170	Sea Water		160
Nickel Sulfate	All	170	Silver Plating Solution	All	140
Nitric Acid	5	130	Soaps	All	170
Nitric Acid	50	80	Sodium Acetate	All	170
O			Sodium Bicarbonate	All	NR
Oil, Sour Crude	All	170	Sodium Bisulfate	All	170
Oil, Sweet Crude	All	170	Sodium Bromide	All	170
			Sodium Borate	All	170

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Chemical Challenge	Conc.%	ST° F	Chemical Challenge	Conc.%	ST° F
Sodium Carbonate	All	NR	U		
Sodium Chlorate	All	NR	Urea	All	150
Sodium Chloride	All	170			
Sodium Cyanide	All	150	V		
Sodium Dichromate	All	120	Vegetable Oils	All	150
Sodium Ferricyanide	All	170	Vinegar	100	150
Sodium Ferrocyanide	All	170			
Sodium Fluoride	All	NR	W		
Sodium Hydroxide	10	120	Water, Deionized		150
Sodium Hypochlorite	5	NR	Water, Demineralized		150
Sodium Nitrate	All	170	Water, Distilled		150
Sodium Sulfate	All	170	Water, Fresh Tap		150
Sodium Sulfide	All	75	Water, Salt		150
Sodium Sulfite	All	NR	Water, Salt		160
Sodium Thiocyanate	All	80	Water, Sea		160
Sodium Thiosulfate	All	170			
Soya Oil	100	170	Z		
Stannous Chloride	All	170	Zinc Sulfate	All	175
Stearic Acid	100	170			
Sugar, Beet and Cane Liquor	All	170			
Sugar, Sucrose	All	170			
Sulfite Liquors		150			
Sulfur Dioxide, Dry		170			
Sulfur Dioxide, Wet		90			
Sulfuric Acid	50	150			
Sulfuric Acid	25	170			
Sulfurous Acid	10	75			
Styrene	100	NR			
T					
Tannic Acid	All	170			
Tartaric Acid	All	75			
Trichloroacetic Acid		NR			
Trichloroethylene	NR				
Trisodium Phosphate		NR			
Turpentine	All	160			

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