

Chemical Compatibility Guide for: PIG UV Activated Repair Patch

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Chemical	%	°C	°F
A			
Acetic acid	10	45	113
Acetic acid	15	30	86
Acetic acid	50	30	86
Acetic acid	85	NR	NR
Acetic acid (glacial)	100	NR	NR
Acetic anhydride	100	NR	NR
Acetone	10	NR	NR
Acetone	100	NR	NR
Acetonitrile	All	NR	NR
Acrylic acid	25	NR	NR
Acrylic latex	All	19	66
Acrylonitrile	100	NR	NR
Adiponitrile	All	NR	NR
Alkylbenzene ammonium salt	All	19	66
Alkylbenzene sulfonic acid	All	19	66
Alum	All	53	127
Aluminum chloride	All	45	113
Aluminum chlorohydrate	All	45	113
Aluminum citrate	All	45	113
Aluminum fluoride	All	NR	NR
Aluminum hydroxide	All	NR	NR
Aluminum nitrate	All	45	113
Aluminum sulfate	All	53	127
Ammonia (dry gas)	100	NR	NR
Ammonia (wet gas)	100	NR	NR
Ammonium acetate	All	NR	NR
Ammonium bicarbonate	4	30	86
Ammonium bifluoride	All	19	66
Ammonium bromide	All	38	100
Ammonium chloride	All	38	100
Ammonium citrate	All	NR	NR
Ammonium fluoride	All	NR	NR

Chemical	%	°C	°F
Ammonium hydroxide (aq. ammonia)	1	NR	NR
Ammonium hydroxide (aq. ammonia)	10	NR	NR
Ammonium hydroxide (aq. ammonia)	40	NR	NR
Ammonium lauryl sulfate	All	19	66
Ammonium nitrate	All	45	113
Ammonium sulfate	All	45	113
Ammonium thiocyanate	20	19	66
Ammonium thiosulfate	All	19	66
Amyl chloride	All	NR	NR
Antimony trichloride	All	NR	NR
B			
Barium acetate	All	45	113
Barium chloride	All	53	127
Barium sulfate	All	53	127
Beer		19	66
Benzene	100	NR	NR
Benzene sulfonic acid	25	19	66
Benzoic acid	All	45	113
Benzoquinone	100	NT	NT
Black liquor	All	NR	NR
Bleach, chlorine dioxide, wet	Sat	NR	NR
Bleach, sodium hypochlorite, pH>11, active chlorine<18%		NR	NR
Borax	All	53	127
Boric acid	All	45	113
Brine	All	53	127
Bromine gas (wet)		NR	NR
Butanediol	All	45	113
Butanol	5	30	86
Butanol	100	19	66
Butoxyethanol	100	NR	NR
Butyl acetate	100	NR	NR
Butyl amine	40	NR	NR

Chemical	%	°C	°F
Butyl amine	100	NR	NR
Butyl benzoate	100	NR	NR
Butyl benzyl phthalate	100	19	66
Butyl cellosolve	100	NR	NR
Butylene glycol	All	45	113
Butylene oxide (THF)	100	NR	NR
Butyric acid	50	19	66
Butyric acid	85	19	66
C			
Cadmium chloride	All	19	66
Calcium bromide	All	53	127
Calcium carbonate	Sat	NR	NR
Calcium chlorate	All	38	100
Calcium chloride	All	53	127
Calcium nitrate	All	53	127
Calcium sulfate	All	53	127
Calcium sulfite	All	NT	NT
Capric acid	100	45	113
Caprolactam	50	NT	NT
Caprylic acid	All	45	113
Carbon dioxide gas, dry		68	154
Carbon monoxide gas, dry		68	154
Carbon tetrachloride	100	19	66
Carbonic acid	All	38	100
Carboxy ethylcellulose	10	NT	NT
Carboxy methylcellulose	All	NT	NT
Cashew nut oil	100	38	100
Castor oil	100	53	127
Chlorinated waxes	All	30	86
Chlorine dioxide, dry	All	NR	NR
Chlorine dioxide, wet	Sat	NR	NR
Chlorine gas, dry	100	NR	NR
Chlorine gas, wet	100	NR	NR

Chemical	%	°C	°F
Chloroacetic acid	25	19	66
Chloroacetic acid	50	NR	NR
Chlorobenzene	100	NR	NR
Chloroethylene	100	NR	NR
Chloroform	100	NR	NR
Chrome plating solution		NR	NR
Chromic acid	1	23	73
Chromic acid	5	23	73
Chromic acid	10	23	73
Chromic acid	20	NR	NR
Chromic sulfate	All	53	127
Chromous sulfate	All	19	66
Citric acid	50	53	127
Citric acid	100	NT	NT
Cobalt chloride	All	45	113
Cobalt nitrate	All	45	113
Coconut fatty acid	100	45	113
Coconut oil	100	53	127
Copper acetate	All	38	100
Copper ammonium chloride	All	30	86
Copper chloride	All	45	113
Copper nitrate	All	45	113
Copper sulfate	All	53	127
Corn oil	100	53	127
Corn starch slurry	All	45	113
Corn sugar	All	30	86
Corn syrup	All	30	86
Cottonseed oil	100	53	127
Cresol	10	NR	NR
Crude oil, sour	100	38	100
Crude oil, sweet	100	38	100
Cyclohexane	100	NR	NR
Cyclohexanol	100	NR	NR

Chemical	%	°C	°F
D			
Decanes	100	38	100
Decanol	100	30	86
Deionized water	100	38	100
Detergents, sulfonated	All	38	100
Diallylphthalate	All	19	66
Dibromopropanol	All	NR	NR
Dibutyl ether	100	NR	NR
Dibutyl phthalate	All	19	66
Dibutylamine	100	NR	NR
Dichlorobenzene	100	NR	NR
Dichloroethane	100	NR	NR
Dichloropropane	100	NR	NR
Diesel fuel	100	30	86
Diethanol amine	100	NR	NR
Diethyl amine	40	NR	NR
Diethyl aniline	100	NR	NR
Diethyl benzene	100	NR	NR
Diethyl ether	100	NR	NR
Diethyl ketone	100	NR	NR
Diethyl phthalate	100	19	66
Diethylene glycol	All	53	127
Diethylene glycol monobutyl ether	100	NR	NR
Diisobutyl phthalate	100	19	66
Dimethyl amine	100	NR	NR
Dimethyl formamide	100	NR	NR
Dipiperazine sulfate solution	All	NT	NT
Dipropylene glycol	All	53	127
Disodium hydrogenphosphate	0.5	30	86
Disodium hydrogenphosphate	10	NR	NR
Dodecanol	100	30	86
Dodecyl benzene sulfonic acid	All	19	66

Chemical	%	°C	°F
E			
Epichlorhydrin	100	NR	NR
Epoxidized vegetable oils	100	38	100
Ethanol	10	30	86
Ethanol	20	30	86
Ethanol	50	NR	NR
Ethanol	96	NR	NR
Ethanol amine	100	NR	NR
Ethylene chlorhydrin	100	NR	NR
Ethylene diaminetetraacetic acid, EDTA	All	NR	NR
Ethylene dibromide	100	NR	NR
Ethylene glycol	All	53	127
Ethylhexanol	All	19	66
F			
Fatty acid esters	100	53	127
Fatty acids	All	53	127
Ferric chloride	All	45	113
Ferric sulfate	All	45	113
Ferrous chloride	All	45	113
Ferrous sulfate	All	45	113
Flue gas, dry	100	NT	NT
Flue gas, wet	100	NT	NT
Fluoboric acid	25	NR	NR
Formaldehyde	50	NR	NR
Formamide	100	NR	NR
Formic acid	10	23	73
Formic acid	30	NR	NR
Formic acid	50	NR	NR
Fuel oil	100	30	86
Furfural	5	NR	NR
Furfural	20	NR	NR
Furfural	100	NR	NR
Furfuryl alcohol	100	NR	NR

Chemical	%	°C	°F
G			
Gluconic acid	50	NT	<i>NT</i>
Glucose	All	30	86
Glutaric acid	All	30	86
Glycerine	100	53	127
Glycolic acid	35	19	66
Glycolic acid	70	NR	<i>NR</i>
Glyoxal	40	19	66
Green liquor	All	NR	<i>NR</i>
H			
Heptane	100	38	100
Hexane	100	38	100
Hexanediol	100	45	113
Hexene	100	38	100
Hydraulic fluid, alkaline	100	19	66
Hydraulic fluid, neutral	100	19	66
Hydrazine	50	NR	<i>NR</i>
Hydrobromic acid	10	19	66
Hydrobromic acid	26	19	66
Hydrobromic acid	48	19	66
Hydrobromic acid	62	NR	<i>NR</i>
Hydrochloric acid	5	19	66
Hydrochloric acid	15	19	66
Hydrochloric acid	20	NR	<i>NR</i>
Hydrochloric acid	25	NR	<i>NR</i>
Hydrochloric acid	37	NR	<i>NR</i>
Hydrochloric acid, fumes		NT	<i>NT</i>
Hydrocyanic acid	10	19	66
Hydrofluoric acid	10	NR	<i>NR</i>
Hydrofluoric acid	20	NR	<i>NR</i>
Hydrofluoric acid	30	NR	<i>NR</i>
Hydrofluorosilicic acid	10	NR	<i>NR</i>
Hydrofluorosilicic acid	25	NR	<i>NR</i>
Hydrofluorosilicic acid	35	NR	<i>NR</i>
Hydrogen peroxide	5	NR	<i>NR</i>

Chemical	%	°C	°F
Hydrogen peroxide	30	NR	<i>NR</i>
Hydrogen sulfide, gas	100	45	113
Hypochlorous acid	20	NR	<i>NR</i>
Hypochlorous acid	50	NR	<i>NR</i>
I			
Isobutanol	5	30	86
Isobutanol	100	19	66
Isopropanol	20	30	86
Isopropanol	100	19	66
Isopropyl palmitate	All	19	66
J			
Jet fuel	100	NT	<i>NT</i>
K			
Kerosene	100	NT	<i>NT</i>
L			
Lactic acid	10	30	86
Lactic acid	80	19	66
Latex, alkaline	All	19	66
Latex, paint emulsion	All	19	66
Lauric acid	100	45	113
Lauryl alcohol	All	38	100
Lauryl chloride	All	38	100
Lauryl ester sulfate	All	19	66
Lauryl mercaptan	All	38	100
Lead acetate	All	38	100
Lead chloride	All	45	113
Lead nitrate	All	45	113
Levulinic acid	All	45	113
Lignin sulfate, 3<pH<7	All	NR	<i>NR</i>
Ligninsulfonate sodium	All	NR	<i>NR</i>
Linoleic acid	100	53	127
Linseed oil	100	53	127
Liquid sugar	All	19	66

Chemical	%	°C	°F
M			
Magnesium bicarbonate	All	30	86
Magnesium bisulfate	All	19	66
Magnesium chloride	All	53	127
Maleic acid	All	45	113
Maleic anhydride	100	NR	NR
Manganese chloride	All	30	86
Manganese nitrate	All	30	86
Maple syrup	All	19	66
Mercaptopropionic acid	10	19	66
Mercuric chloride	All	45	113
Mercuric nitrate	All	45	113
Mercury	100	30	86
Methacrylic acid	40	NT	NT
Methanesulfonic acid	All	NT	NT
Methanol	5	NR	NR
Methanol	100	NR	NR
Methyl Ethyl Ketone (MEK)	100	NR	NR
Methyl isobutyl ketone (MIBK)	100	NR	NR
Methyl-2-pentanediol-2, 4	100	19	66
Methylcellosolve	100	NR	NR
Methylchlorophenoxyacetic acid	100	19	66
Methylchlorophenoxypropionic acid	100	19	66
Methylene chloride	100	NR	NR
Methylene blue salts	All	19	66
Methylpentanol	100	19	66
Milk	All	19	66
Mineral oils	100	53	127
Molasses	100	30	86
Monoethanol amine	100	NR	NR
Motor oil	100	45	113
Mustard	All	19	66
Myristic acid	100	53	127

Chemical	%	°C	°F
N			
Naphtha, heavy aromatic	100	NT	NT
Naphtha, aliphatic	100	38	100
Naphthalene	All	38	100
Naphthenoic acid	All	45	113
Neopentyl glycol	All	45	113
Nickel chloride	All	45	113
Nickel sulfate	All	53	127
Nitric acid	10	19	66
Nitric acid	15	19	66
Nitric acid	20	NR	NR
Nitric acid	30	NR	NR
Nitric acid	40	NR	NR
Nitric acid	50	NR	NR
N-methyl-2-pyrrolidone (NMP)	3	NT	NT
N-methyl-2-pyrrolidone (NMP)	100	NR	NR
Nonanes	100	38	100
Nonenes	100	38	100
O			
Octane	100	38	100
Octanoic acid	All	45	113
Octanol	100	19	66
Octene	100	38	100
Oleic acid	100	53	127
Olive oil	100	53	127
Oxalic acid	20	53	127
Ozone gas	All	NR	NR
P			
Palm oil	100	53	127
Palmitic acid	100	53	127
Paraffin wax	100	45	113
Peanut oil	100	53	127
Pentane	100	26	79
Pentanedioic acid	All	30	86

Chemical	%	°C	°F
Pentanol	100	19	66
Pentasodium triphosphate	All	38	100
Pentene	100	23	73
Perchloric acid	20	NR	NR
Perchloric acid	70	NR	NR
Perchloroethylene	100	15	59
Phenol	1	NR	NR
Phenol	5	NR	NR
Phosphoric acid	50	45	113
Phosphoric acid	80	38	100
Phosphoric acid	105	19	66
Phosphoric acid	115	NR	NR
Phosphorous acid	70	NR	NR
Phthalates	All	19	66
Phthalic acid	All	30	86
Phthalic anhydride	Sat	30	86
Picric acid	10	NT	NT
Pine oil	100	38	100
Potassium hydroxide	10	NR	NR
Potassium hydroxide	25	NR	NR
Potassium nitrate	All	53	127
Potassium nitrite	All	53	127
Potassium sulfate	All	53	127
Propanol	20	30	86
Propanol	100	19	66
Propionic acid	40	19	66
Propylene glycol	All	53	127
Pyridine	100	NR	NR
Q			
Quaternary ammonium salts	25	38	100
S			
Salicylic acid	All	19	66
Sea water		53	127
Silcon oils, greases	100	38	100
Sodium acetate	All	45	113

Chemical	%	°C	°F
Sodium alkylaryl sulfonate	All	19	66
Sodium benzoate	All	45	113
Sodium bicarbonate	All	30	86
Sodium bifluoride	All	19	66
Sodium bisulfate	All	53	127
Sodium bisulfite	All	38	100
Sodium borate	All	45	113
Sodium carbonate	10	NR	NR
Sodium chlorate	All	38	100
Sodium chloride	All	53	127
Sodium dichromate	All	38	100
Sodium ferricyanide	All	45	113
Sodium fluoride	All	30	86
Sodium fluorosilicate	All	19	66
Sodium hydrosulfide	All	NR	NR
Sodium hydroxide	5	NR	NR
Sodium hydroxide	25	NR	NR
Sodium hydroxide	50	NR	NR
Sodium hypochlorite, pH>11, active chlorine<18%		NR	NR
Sodium laureth sulfate	All	19	66
Sodium nitrate	All	53	127
Sodium nitrite	All	53	127
Sodium thiocyanate	All	30	86
Sodium triphosphate	All	30	86
Sorbitol solutions	All	53	127
Soybean oil	100	53	127
Stannic chloride	All	45	113
Stannous chloride	All	45	113
Stannous sulfate	All	53	127
Starch, 4<pH<9	All	30	86
Stearic acid	All	53	127
Styrene	100	NR	NR
Succinic acid	All	30	86
Sucrose	All	45	113

Chemical	%	°C	°F
Sulfamic acid	10	19	66
sulfamic acid	25	NR	NR
Sulfonated detergents	All	19	66
Sulfur dioxide gas, wet	All	53	127
Sulfuric acid	10	53	127
Sulfuric acid	25	38	100
Sulfuric acid	50	19	66
Sulfuric acid	60	NR	NR
Sulfuric acid	75	NR	NR
T			
Tall oil	All	45	113
Tannic acid	All	45	113
Tetrachloroethane	100	NR	NR
Tetrachloroethene	100	15	59
Tetrasodium ethylenediaminetetraacetate	All	NR	NR
Thioglycolic acid	10	NT	NT
Thionyl chloride	100	NR	NR
Toluene	100	NR	NR
Toluene diisocyanate	100	NR	NR
Toluene sulfonic acid	50	NR	NR
Transformer oils	100	19	66
Trichloroethane	100	NR	NR
Tricresyl phosphate	100	NR	NR
Triethanol amine	100	NR	NR
Triethyl amine	40	NR	NR
Triethyl amine	100	NR	NR
Triethylene glycol	All	53	127
Triphenyl phosphate	100	NR	NR
Tripropylene glycol	All	53	127
Trisodium phosphate	All	NR	NR
Tung oil	100	53	127
Turpentine	All	19	66
U			
Urea	All	30	86

Chemical	%	°C	°F
V			
Vegetable oils	100	53	127
Vinyl chloride	100	NR	NR
W			
Water condensate	100	38	100
Water, demineralized	100	38	100
Water, distilled	100	38	100
Water, sea	100	53	127
Water, tap	100	53	127
Whisky		19	66
Wine		19	66
X			
Xylene	100	NR	NR
Z			
Zeolite	All	NT	NT
Zinc chlorate	All	38	100
Zinc chloride	All	45	113
Zinc sulfate	All	53	127

- Concentrations are given by weight
- Maximum continuous immersion temperatures are given in Celsius and Fahrenheit
- NR means Not Recommended for continuous immersion
- NT means Not Tested



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