



Technical Note : Chemical Resistance List for Polypropylene Geomembranes Aqualastic (FPP)

Aquatan's Polypropylene Geomembranes (FPP) exhibit resistance to a wide range of aggressive chemicals. This performance property is of critical importance in various containment environments. The following is a list of chemicals approved for use in contact with Aquatan's Polypropylene Geomembranes. Restrictions are that the chemical temperature as it is applied to the geomembrane is not to exceed 122°F (50°C). If the chemical temperature is higher, or if the chemical is not listed, contact Aquatan.

It is important to note that the degree of attack on any material is influenced by a number of factors including dilution of the chemical, temperature, aeration, velocity of flow, duration of exposure, stability of the fluid, possible chemical reaction with other compounds being held in the same pond, size of the area under attack, geometry of the test sample, etc. Therefore, this list is offered as a guide only.

Before specifying Aquatan's Polypropylene Geomembranes for a liner, floating cover, or any containment application, we strongly advise that you test the material under actual or simulated service conditions.

A	B	Castor oil
Acetamide	Barium carbonate	Chloroacetic acid
Acetic acid	Barium chloride, saturated	Citric acid concentrated
Acetone	Barium chloride 30%	Citric acid diluted
Acid mine water	Barium hydroxide	Copper chloride
Alcohol, amy1	Barium sulfide	Copper cyanide
Alcohol, ethyl (ethanol)	Beer	Copper fluoride
Aluminum chloride 10%	Beet sugar liquor	Copper nitrate
Aluminum fluoride	Black liquor	Copper sulfate
Aluminum nitrate	Brine	Cottonseed oil
Aluminum sulfate 10%	Butyric acid	Cupric chloride <2%
Aluminum chloro-hydroxide wet	C	Cyanic acid
Ammonia, 100% anhydrous	Calcium carbonate	D
Ammonia, aqueous	Calcium chloride	Detergents 20%
Ammonium carbonate	Calcium chloride, saturated	Diethylene glycol
Ammonium bi-fluoride	Calcium hydroxide 20%	E
Ammonium chloride saturated	Calcium hypochlorite 100%	Ethyl alcohol
Ammonium hydroxide	Calcium nitrate	Ethyl sulfate
Ammonium nitrate	Calcium sulfate	Ethylene diamine
Ammonium sulfate 10%	Calcium sulfite	Ethylene glycol (dihydrox-ethane)
Ammonium sulfite	Calcium dioxide	Ethylene oxide
Antimony tri-chloride	Calcium monoxide	F
Arsenic acid	Calcium phosphate	Ferric chloride >1%
Asphalt	Carbonic acid	Fluoboric acid
F contd	Methyl ethyl ketone (TO 70°F)	R

Formaldehyde (formalin)	Milk and its by-products	Resorcinol
Furan	Monochloroacetic acid	Rosin
G	N	S
Gallic acid	Nickel chloride	Salt brine (sodium chloride solution)
Gelatin	Nickel nitrate	Sea water
Glucose	Nickel sulfate	Sewage
Glycerine (glycerol)	Nitrogen	Silicone oil
Glycolic acid (hydroxyl acetic)	N-octane	Silver bromide
Glycol (ethylene glycol)	O	Silver cyanide
H	Oils, animal	Skydrol 500 & 7000
Hexamine	Oils, olive	Soap solutions
Hydrochloric acid 20%	Oils, vegetable	Sodium acetate
Hydrocyanic acid	Oxalic acid	Sodium benzoate
Hydrocyanic acid 35%	P	Sodium bicarbonate
Hydrofluosilicic acid	Phenol sulfonic acid	Sodium bichromate
Hydrogen chloride gas, dry	Photographic solutions (developers)	Sodium bisulfate
Hydrogen gas	Photographic solutions (hypo acid fixing baths)	Sodium bisulfite
Hydrogen cyanide	Plating solutions, brass	Sodium borate (borax)
Hydrogen peroxide <30%	Plating solutions, cadmium	Sodium bromide
Hydrogen sulfide	Plating solutions, chrome	Sodium carbonate (soda ash)
I	Plating solutions, copper	Sodium chlorate
Inks	Plating solutions, gold	Sodium chlorite 5% (to 158°F)
Iodine	Plating solutions, lead	Sodium chloride
Isopropyl alcohol	Plating solutions, nickel	Sodium chromate
K	Plating solutions, silver	Sodium citrate
Ketones - aliphatic	Plating solutions, tin	Sodium cyanide
L	Plating solutions, zinc	Sodium dichromate
LPG (Propane)	Potassium aluminum sulfate (alum)	Sodium ferricyanide
Lactic acid (to 70°F)	Potassium bicarbonate	Sodium fluoride
Lanoline	Potassium bichromate	Sodium hydroxide 10%
Lead acetate	Potassium bromide	Sodium hypochlorite
Lead nitrate	Potassium carbonate	Sodium hyposulfite
Lead sulfate	Potassium chlorate	Sodium metasilicate
Lime sulfur (calcium sulfide)	Potassium chromate	Sodium nitrate
Linseed oil	Potassium cyanide	Sodium perborate
Lime (calcium oxide)	Potassium dichromate	Sodium phosphates
M	Potassium ferricyanide	Sodium silicate (water glass)
Magnesium bisulfate	Potassium ferrocyanide	Sodium sulfate
Magnesium carbonate	Potassium hydrate	Sodium sulfide
Magnesium chloride	Potassium nitrate	Sodium sulfite
Magnesium biphosphate	Potassium oxalate	Sodium thiosulfate (hypo)
Magnesium hydroxide	Potassium sulfate	Sodium tetraborate (borax)
Magnesium nitrate	Potassium sulfide	Starch
Magnesium sulfate	Potassium sulfite	Sugars and syrups
Maleic acid	Propyl acetate	Sulfur
Manganese chloride	Propyl alcohol (propanol)	Sulfuric acid 10%
Mercuric cyanide	Propylene chlorhydrin	Sulfurous acid
Methyl acetone	Propylene glycol	T
Methyl alcohol (methanol)	Pyridine	Tall oil

T contd	U	Y
Tallow	Urea	Yeast
Tannic acid	Urine	Z
Tartic acid	V	Zinc carbonate
Tetraphosphoric acid	Vaseline	Zinc chloride
Triethylene glycol	Vinegar	Zinc cyanide
Triethyl phosphate	W	Zinc nitrate
Triphenyl phosphite	Whiskey	Zinc stearate
Triphenyl phosphite	White liquor, pulp mill	
Tripropylene glycol	White spirit	
	Wine	
	Wood pulp	

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