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Chemical Compatibility Guide
For Containment Berms
(Reinforced Geomembrane)

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Acetic Acid 5%	A
Acetic Acid 50%	X
Acetic Acid Glacial	X
Acetic Anhydride	X
Acetone	C
Alkyl Alcohol	T
Alkyl Chloride	X
Aluminum Chloride	T
Aluminum Fluoride	T
Aluminum Sulfate	T
Ammonia Carbonate	T
Ammonium Chloride	T
Ammonium Fluoride 20%	T
Ammonium Hydroxide 30%	T
Ammonium Nitrate	T
Ammonium Phosphate	T
Ammonium Sulfate	T
Ammonium Sulfide	T
Amyl Acetate	X
Amyl Alcohol	T
Amyl Chloride	X
Aniline	X
Animal Oil	T
Antimony Chloride	A
Aqua Regia	X
ASTM Fuel A	A
ASTM Fuel B	A
ASTM Fuel C	B
ASTM Oil # 1	T

Cyclohexane	T
Cyclohexanol	T
Cyclohexanone	X
Dextrine	T
Dibutyl Phthalate	X
Diesel Fuel	A
Diethyl Ether	X
Diethyl Sebacate	X
Dimethylamine	X
Diethyl Ketone	X
Disodium Phosphate	T
Epichlorohydrine	C
Ethyl Acetate	C
Ethyl Alcohol	B
Ethyl Bromide	C
Ethyl Chloride	C
Ethylene Dichloride	X
Ethylene Glycol	T
Ethylene Oxide	A
Ferric Chloride	T
Ferric Nitrate	T
Ferrous Chloride	T
Ferrous Sulfate	T
Fluosilic Acid	T
Formaldehyde 40%	B
Formic Acid	X
Furfural	X
Gallic Acid	X
Gasoline <25 % BTX	A

Oleum 25 %	C
Oxalic Acid	T
Palmitic Acid	T
Perchlorethylene < 1 %	T
Perchloroethylene 100 %	C
Phenol	C
Phenol Formaldehyde	X
Phosphoric Acid 50 %	C
Phosphoric Acid 75 %	X
Phosphorous Yellow	X
Phosphorous Pentoxide	X
Photographic Solutions	T
Phthalate Plasticizer	C
Pickling Solutions	X
Potassium Bicarbonate	T
Potassium Carbonate	T
Potassium Chromate 40 %	T
Potassium Cyanide	T
Potassium Dichromate	T
Potassium Hydroxide	T
Potassium Nitrate	T
Potassium Perchlorate 10 %	T
Potassium Permanganate	T
Potassium Sulfate	A
Pyridine	X
Salt Water	A
Silicon Grease	T
Silver Nitrate	T
Skydrol Hydraulic Fluid	C

ASTM Oil #2	A
ASTM Oil #3	T
Barium Carbonate	T
Barium Hydroxide	T
Barium Sulfate	T
Benzene < 1%	B
Benzene 25%	B
Benzene 100%	C
Benzoic Acid	T
Bismuth Carbonate	T
Borax Solutions	T
Boric Acid 10%	T
Bromic Acid	X
Bromine Anhydrous	X
Butyl Acetate	X
Butyl Alcohol	T
Butyl Phenol	X
Butyric Acid	X
Calcium Bisulfate	T
Calcium Carbonate	T
Calcium Chloride	T
Calcium Hydroxide	T
Calcium Hypochlorate	T
Calcium Nitrate 50%	T
Calcium Sulfate	A
Calcium Disulfide	X
Carbon Tetrachloride	C
Carbonic Acid	T
Castor Oil	T
Chlorine Gas	X
Chloracetic Acid	X
Chlorobenzene	X
Chloroform	X
Chlorosulfonic Acid	X
Chrome Aluminum	T
Chromic Acid 30%	X
Chromium Trioxide	X
Citric Acid	T
Copper Chloride	T
Copper Nitrate	T
Copper Sulfate	T
Corn Oil	T
Cottonseed Oil	T
Crude Oil	T

Gasoline >25 % BTX	A
Glucose	T
Glycerine	T
Hexane	A
Hydraulic Fluid	X
Hydrazine	X
Hydrobromic Acid	X
Hydrochloric Acid 20%	X
Hydrochloric Acid 37%	X
Hydrocyanic Acid	T
Hydrofluoric Acid 20%	X
Hydrofluoric Acid 75%	X
Hydrofluosilic Acid 30%	C
Hydrogen Peroxide 3%	A
Hydrogen Peroxide 10%	T
Hydrogen Sulfide	T
Hydroquinone	B
Iso-Octane	A
Isopropyl Alcohol	A
JP-4 Jet Fuel	A
Jet A	T
Jet B	T
Kerosene	A
Lactic Acid	X
Lead Acetate	T
Linseed Oil	T
Lubricating Oils	T
Magnesium Carbonate	T
Magnesium Chloride	T
Magnesium Hydroxide	T
Magnesium Nitrate	T
Magnesium Sulfate	T
Malic Acid	T
Mercuric Chloride	T
Methyl Ethyl Keytone	C
Mineral Oil	T
Mineral Spirits	T
Naptha	X
Napthalene	X
Nitric Acid 10 %	X
Nitric Acid 50 %	X
Nitric Acid 70 %	X
Nitrobenzene	X
Oleic Acid	T

Soap Solutions	A
Sodium Acetate	A
Sodium Bicarbonate	A
Sodium Bisulfate	T
Sodium Borate	T
Sodium Carbonate	T
Sodium Chlorate	T
Sodium Chloride	A
Sodium Dichromate 20 %	T
Sodium Dichromate 100 %	T
Sodium Ferrocyanide	T
Sodium Fluoride	T
Sodium Hydroxide 25 %	T
Sodium Hydroxide 60 %	A
Sodium Hypochlorite	T
Sodium Nitrate	T
Sodium Sulfate	T
Soybean Oil	A
Stannous Chloride	X
Stearic Acid	A
Styrene	X
Sulfuric Acid 10 %	X
Sulfuric Acid 40 % -	X
Sulfuric Acid 98 %	X
Tannic Acid	X
Tartaric Acid	T
Tetrahydrofuran	X
Toluene < 1 %	T
Toluene 25 %	T
Toluene 1001	C
Transformer Oil	T
Triethanolamine	B
Trisodium Phosphate	T
Tung Oil	T
Turpentine	B
Urea	T
Vegetable Oil	A
Water	A
Xylene < 1 %	T
Xylene 25 %	T
Xylene 100%	X
Zinc Chloride	T
Zinc Oxide	T

Legend: **A** = Fluid has little to minor effect **B** = Fluid has minor to moderate effect
C = Fluid has severe effect **T** = No test data – likely to have minor effect
X = No test data – likely to have severe effect