

# Chemical compatibility

## Chemical resistance information for ASSETGUARD products

### Test Procedures

All chemical testing was performed using the following test methods to determine the suitability of aromatic polyurea liners. All tests were performed at ambient temperatures unless otherwise specified. If the concentration of the chemical is not listed then assume 100% concentration.

**ASTM D-543:** Standard practice for evaluating the resistance of plastics to chemicals

**CL-SP0818:** Standpipe evaluation of elastomer coated geotextile resistance to chemicals

**ASTM D-1308:** Standard test method for effect of household chemicals on clear and pigmented organic finishes

Test Solution		Test Solution		Test Solution	
Acetaldehyde	SS	Ethyl acetate	NR	Phosphoric acid 50%	NR
Acetic acid 5%	SS	Ethylene glycol	SS	Potassium bicarbonate	SC
Acetone	NR	Ethylene glycol 50%	SC	Potassium chloride	SC
Ammonium hydroxide	SS	Gasoline	SS	Propylene glycol	SS
Aromatic 100	C	Glycerin	SC	Propylene glycol 50%	SC
Benzene	C	Hexane	SC	Salt water	P
Benzene 60%	SS	Hydraulic oil	SC	Skydrol	NR
Boric acid 5%	SC	Hydrochloric acid 10%	SC	Sodium hydroxide 20%	SC
Butanediol	SC	Hydrochloric acid 20%	SS	Sodium hydroxide 50%	SC
Butanediol 60%	SC	Hydrogen peroxide 3%	SC	Sodium hypochlorite 12.5%	SC*
Butyl alcohol	NR	Hydrogen peroxide 50%	SC	Styrene	SS
Castor oil	SC	IPA	C	Sugar water	P
Citric acid 50%	SS	MEK	NR	Sulfuric acid 20%	SC
Corn syrup	SC	Mesamoll	SC	Sulfuric acid 50%	NR
<b>Crude Oil Basin Samples</b>		Methanol	SS	Tert-butyl methyl ether	NR
Dugout Fed Red River	SC	Methylbutane	SC	Toluene	NR
Rolfstad Mission Canyon	SC	Methylene chloride	NR	Tricresyl phosphate	SS
Charlotte 3-Forks	SC	Mineral spirits	SS	Triethylene glycol	SC
Big Sky	SC	Motor oil	SC	Triethylene glycol (200°F)	SC
Yellowstone	SC	N, N Dimethylformamide	NR	Trisodium phosphate 50%	SC
Diesel	SS	Nitric acid 20%	NR	Turpentine	C
DINP	SC	Oleic acid >99%	C	Water	P
Ethanol	SS	Phosphoric acid 20%	SS	Xylene	NR

\*Exposure may cause discoloration or surface effect requiring replacement of liner

### Rating Key:

**P**—Recommended for primary containment

**SC**—Recommended for secondary containment:  
immersion or spill conditions for 72 hours

**SS**—Recommended for spill/splash exposure:  
clean-up within 24 hours

**C**—Conditional: clean-up within 3 hours

**NR**—Not recommended

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